

Question Paper Preview

Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

Question Paper MScBiochemistryEnvironmentalScienceForensicScienceGeneticsandMicrobiologyBCE

Name : 11th Aug 2022 S2

Subject Name : M.Sc. Biochemistry Environmental Science Forensic Science Genetics and Microbiology
(BCESFSG&M)

Creation Date : 2022-08-11 19:31:12

Duration : 90

Total Marks : 100

Display Marks: No

Calculator : None

Magnifying

Glass Required? No

:

Ruler Required? No

:

Eraser
Required? : No

Scratch Pad
Required? : No

Rough

Sketch/Notepad No
Required? :

Protractor
Required? : No

Show
Watermark on Console? : Yes
Highlighter : No
Auto Save on Console? Yes
Change Font Color : No
Change Background Color : No
Change Theme : No
Help Button : No
Show Reports : No
Show Progress Bar : No

PART A

Group Number : 1
Group Id : 90320115
Group Maximum Duration : 0
Group Minimum Duration : 0
Show Attended Group? : Yes
Edit Attended Group? : Yes

Break time : 0
Group Marks : 40
Is this Group for Examiner? : No
Examiner permission : Cant View
Show Progress Bar? : No

CHEMISTRY

Section Id : 90320126
Section Number : 1
Section type : Online
Mandatory or Optional : Mandatory
Number of Questions : 40
Number of Questions to be attempted : 40
Section Marks : 40
Enable Mark as Answered Mark for Review and Clear Response : Yes
Maximum Instruction Time : 0
Sub-Section : 1

Number :

Sub-Section Id : 90320128

Question

Shuffling Yes

Allowed :

Question Number : 1 Question Id : 9032011802 Question Type : MCQ Option Shuffling : Yes Is Que

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Tim

Correct Marks : 1 Wrong Marks : 0

The reaction of Grignard reagents with acid halides gives.

ఏసిడ్ హాలైడ్లతో గ్రిగ్నార్డ్ కారకాల చర్యనిచ్చునవి

Options :

Ketones

కీటోన్లు

1. ✘

Aldehydes

ఆల్డిహైడ్లు

2. ✘

Alcohols

ఆల్కహాల్లు

3. ✔

Alkyl halides

ఆల్కైల్ హాలైడ్లు

4. ✘

Question Number : 2 Question Id : 9032011803 Question Type : MCQ Option Shuffling : Yes Is Que

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Tim

Correct Marks : 1 Wrong Marks : 0

The number of possible isomers for the octahedral $[\text{Co}(\text{C}_2\text{O}_4)(\text{NH}_3)_2]^-$ is

అష్టముఖీయ $[\text{Co}(\text{C}_2\text{O}_4)(\text{NH}_3)_2]^-$ కు సాధ్యమగు సాదృశ్యాల సంఖ్య

Options :

3

1. ✓

1

2. ✗

3. ✗ 4

2

4. ✗

Question Number : 3 Question Id : 9032011804 Question Type : MCQ Option Shuffling : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : N.A

Correct Marks : 1 Wrong Marks : 0

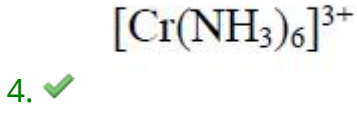
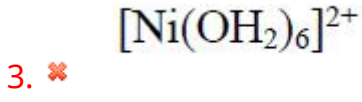
In which one of the following species does the transition metal ion have d^3 electronic configuration?

క్రింద ఇచ్చిన జాతులలో దేనిలో పరివర్తన లోహ అయాన్ కు d^3 ఎలక్ట్రాన్ విన్యాసం ఉండును?

Options :

1. ✗ $[\text{CoF}_6]^{3-}$

2. ✗ $[\text{Co}(\text{OH}_2)_6]^{2+}$

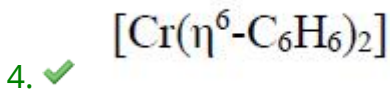
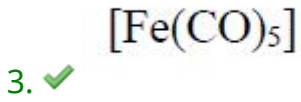
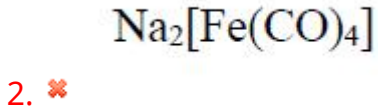
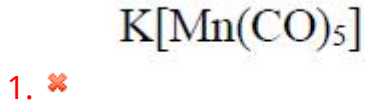


Question Number : 4 Question Id : 9032011805 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Which of the following complex has metal with highest oxidation state?

క్రింది ఏ సంక్లిష్టం అధిక ఆక్సీకరణ స్థితి గల లోహాన్ని కల్గియున్నది?

Options :



Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of the correct options are chosen.

Question Number : 5 Question Id : 9032011806 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : N.A

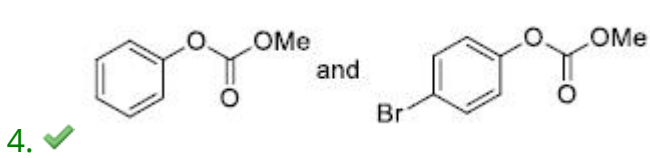
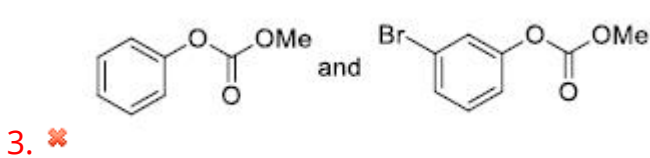
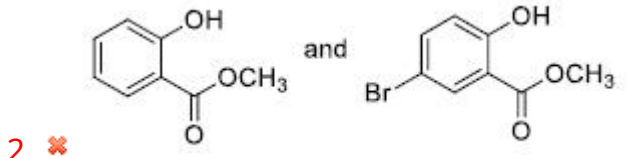
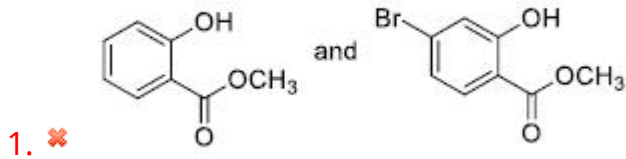
Correct Marks : 1 Wrong Marks : 0

Phenol reacts with methyl chloroformate in the presence of NaOH to form product A. A reacts with Br₂ to form product B. The products A and B are;

NaOH సమక్షంలో ఫినాల్, మీథైల్ క్లోరోఫార్మేట్ తో చర్యనొంది క్రియాజన్యం A నిచ్చును. A, Br₂ తో

చర్యనొంది B నిచ్చును. క్రియాజన్యాలు A మరియు B లు వరుసగా

Options :



Question Number : 6 Question Id : 9032011807 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : N.A

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : N.A

Correct Marks : 1 Wrong Marks : 0

Which of the following sets represents micronutrients?

క్రింది సమితులలో ఏది సూక్ష్మపోషకాలని సూచిస్తుంది?

Options :

Mn, Cu, Zn, Mo and Se

Mn, Cu, Zn, Mo మరియు Se

1. ✓

Na, Ca, Cl and Fe

2. ✘

Na, Ca, Cl మరియు Fe

Mn, Ca, P, Zn and Fe

3. ✘

Mn, Ca, P, Zn మరియు Fe

P, Cl, Cu, Zn and Mo

4. ✘

P, Cl, Cu, Zn మరియు Mo

Question Number : 7 Question Id : 9032011808 Question Type : MCQ Option Shuffling : Yes Is Que

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Tim

Correct Marks : 1 Wrong Marks : 0

Most abundant element by atomic per cent in human body is

పరమాణుగాత పరంగా, మానవ శరీరంలో అధిక ఉనికి గల మూలకము

Options :

1. ✘

P

2. ✘

C

3. ✘

H

O

4. ✓

Question Number : 8 Question Id : 9032011809 Question Type : MCQ Option Shuffling : Yes Is Que

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Tim

Correct Marks : 1 Wrong Marks : 0

Negative charge of carbanion can be dispersed by

కార్బానియన్‌లో ఋణాత్మక ఆవేశం దేనివల్ల విక్షిప్తమగును?

Options :

+I effect and resonance

1. ✘

+I ప్రభావం మరియు రెజొనెన్స్

Hyperconjugation

2. ✘

అతిసంయుగ్మము

-I effect and resonance

3. ✓

-I ప్రభావం మరియు రెజొనెన్స్

+M effect and resonance

4. ✘

+M ప్రభావం మరియు రెజొనెన్స్

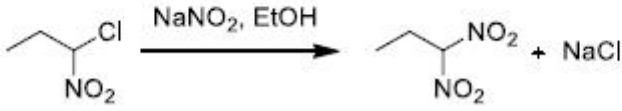
Question Number : 9 Question Id : 9032011810 Question Type : MCQ Option Shuffling : Yes Is Que

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Tim

Correct Marks : 1 Wrong Marks : 0

What is the name of the following reaction?

క్రింది చర్య పేరు ఏమిటి?



Options :

Ullmann reaction

ఉల్మాన్ చర్య

1. ✘

Claisen condensation reaction

క్లైసన్ సంఘనన చర్య

2. ✘

Ter meer reaction

టెర్ మీర్ చర్య

3. ✔

Claisen rearrangement reaction

క్లైసన్ పునరమరిక చర్య

4. ✘

Question Number : 10 Question Id : 9032011811 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is formed when alkyl primary amines react with nitrous acid?

ఆల్కైల్ ప్రైమరీ అమీన్లు నైట్రస్ ఆమ్లంతో చర్యనొంది క్రింది వాటిలో దేనిని ఏర్పరుచును?

Options :

Nitroalkanes

1. ✘ నైట్రో ఆల్కేన్లు

Alcohols

2. ✔ ఆల్కహాల్లు

Tertiary amines

3. ✘ టెర్షియరీ ఎమీన్లు

Secondary amines

4. ✘ సెకండరీ ఎమీన్లు

Question Number : 11 Question Id : 9032011812 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following cell is not an electrochemical cell?

క్రింది ఘటాలలో ఏది విద్యుత్ రసాయన ఘటము కానిది ఏది?

Options :

Fuel cell

1. ✘ ఇంధన ఘటము

Battery

2. ✘ బ్యాటరీ

Voltaic cell

వోల్టాయిక్ ఘటము

3. ✘

Photovoltaic cell

ఫోటోవోల్టాయిక్ ఘటము

4. ✔

Question Number : 12 Question Id : 9032011813 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The power of battery having emf $E_1 = 20V$ is

emf $E_1 = 20V$ గల బ్యాటరీ సామర్థ్యం

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options :

20 Watt

1.

30.8 Watt

2.

13.4 Watt

3.

44.2 Watt

4.

Question Number : 13 Question Id : 9032011814 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Of the following, which is the conjugate acid and base pair?

క్రింది వాటిలో ఏది సంయుగ్మ ఆమ్ల-క్షార జంట?

Options :

H_2SO_4 and HSO_4^-

1. ✓

H_2SO_4 మరియు HSO_4^-

H_2SO_4 and Na_2SO_4

2. ✘

H_2SO_4 మరియు Na_2SO_4

HCl and NaOH

3. ✘

HCl మరియు NaOH

H_2SO_4 and NaOH

4. ✘

H_2SO_4 మరియు NaOH

Question Number : 14 Question Id : 9032011815 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In a zero-order reaction for every 10°C rise of temperature, the rate is doubled. If the temperature is increased from 10°C to 100°C , the rate of the reaction will become

ఒక సున్ను క్రమాంక చర్యలో ప్రతి 10°C ల ఉష్ణోగ్రతా ఉన్నతికి, రేటు రెట్టింపగును. ఉష్ణోగ్రత 10°C నుండి 100°C లకు పెరిగినపుడు, చర్య రేటు

Options :

64 times

1. ✘ 64 రెట్లుగును

20 times

2. ✘ 20 రెట్లుగును

256 times

3. ✘ 256 రెట్లుగును

512 times

4. ✔ 512 రెట్లుగును

Question Number : 15 Question Id : 9032011816 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The half-life period of a first-order chemical reaction is 6.93 minutes. The time required for the completion of 99% of the chemical reaction will be ($\log 2 = 0.301$)

ఒక ప్రథమ క్రమాంక రసాయన చర్య అర్థాయువు 6.93 నిమిషాలు. రసాయన చర్య 99% పూర్తి అవుటకు కావలసిన సమయం ($\log 2 = 0.301$)

Options :

230.3 minutes

1. ✘ 230.3 నిమిషాలు

460.06 minutes

2. ✘ 460.06 నిమిషాలు

46.06 minutes

3. ✔ 46.06 నిమిషాలు

23.03 minutes

4. ✘ 23.03 నిమిషాలు

Question Number : 16 Question Id : 9032011817 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Mixture of ice and water form

మంచు మరియు నీరు మిశ్రమం ఏర్పరుచునది

Options :

1. ✘

a closed system

ఒక సంవృత వ్యవస్థ

a open system

2. ✘ ఒక వివృత వ్యవస్థ

a isolated system

ఒక వివిక్త వ్యవస్థ

3. ✘

a heterogeneous system

ఒక విజాతీయ వ్యవస్థ

4. ✔

Question Number : 17 Question Id : 9032011818 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The enthalpy of vaporisation of a substance is 8400 J mol^{-1} and its boiling point is -173°C . The entropy change for vaporisation is:

ఒక పదార్థపు బాష్పీభవన ఎంథాల్పి 8400 J mol^{-1} మరియు దాని బాష్పీభవన స్థానం -173°C .

బాష్పీభవనంకు ఎంట్రోపీలో మార్పు

Options :

1. ✔ $84 \text{ J mol}^{-1} \text{ K}^{-1}$

2. ✘ $12 \text{ J mol}^{-1} \text{ K}^{-1}$

$$29 \text{ J mol}^{-1} \text{ K}^{-1}$$

3. ✘

$$49 \text{ J mol}^{-1} \text{ K}^{-1}$$

4. ✘

Question Number : 18 Question Id : 9032011819 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Spin multiplicity can be derived from the equation

స్పిన్ బాహుళ్యతను సాధించు సమీకరణం

Options :

$$2J + 1$$

1. ✘

$$2S + 1$$

2. ✔

$$2JS - 1$$

3. ✘

$$2S$$

4. ✘

Question Number : 19 Question Id : 9032011820 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following electronic transition require less energy?

క్రింది ఏ ఎలక్ట్రానిక్ పరివర్తనముకు తక్కువ శక్తి అవసరమగును?

Options :

σ to σ^*

σ నుండి σ^* కు

1. ✘

π to π^*

π నుండి π^* కు

2. ✘

n to σ^*

3. ✘ n నుండి σ^* కు

n to π^*

4. ✔ n నుండి π^* కు

Question Number : 20 Question Id : 9032011821 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a variable

క్రింది వాటిలో ఏది చరరాశి కాదు?

Options :

Wavelength

1. ✘ తరంగ దైర్ఘ్యము

Planck's constant

2. ✓ ప్లాంక్ స్థిరాంకం

Velocity

3. ✘ వేగం

Location

4. ✘ స్థానం

Question Number : 21 Question Id : 9032011822 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

'No two electrons of an atom will have an identical set of four quantum numbers'. It is the statement of

పరమాణువు యొక్క ఏ రెండు ఎలక్ట్రాన్లకు నాలుగు క్వాంటం సంఖ్యల సమితి ఒకే విధంగా ఉండదు. ఈ వివరణ

Options :

Hund's rule

1. ✘ హుండ్ నియమము

Aufbau principle

2. ✘ ఆఫ్ బౌ నియమము

Raman effect

3. ✘ రామన్ ప్రభావం

Pauli's exclusion principle

పౌలి వర్జన నియమము

4. ✓

Question Number : 22 Question Id : 9032011823 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which is the appropriate statement about the reactions of gases and solids?

వాయువులు మరియు ఘనాల చర్యల గురించి తగిన వివరణ ఏది?

Options :

Gases react faster than the solids

1. ✓ ఘనాల కంటే వాయువులు వేగంగా చర్యనొందుతాయి

Gases do not react at all while solids react faster

2. ✘ వాయువులు అసలు చర్యనొడవు, కానీ ఘనాలు వేగంగా చర్యనొందుతాయి

Gases react slower than the solids

3. ✘ ఘనాల కంటే వాయువులు నెమ్మదిగా చర్యనొందుతాయి

Both the gases and solids react at a same rate

4. ✘ వాయువులు మరియు ఘనాలు రెండూ ఒకే రేటుతో చర్యనొందుతాయి

Question Number : 23 Question Id : 9032011824 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The data collected through the tools which are quantitative in nature and analysed accordingly is

స్వాభావికంగా పరిమాణాత్మకమైన సాధనాల ద్వారా సేకరించి మరియు తదనుగుణంగా విశ్లేషించబడిన దత్తాంశం

Options :

Thematic analysis

1. ✘ ఉష్ణ నిర్ణయాత్మక విశ్లేషణ

Field analysis

2. ✘ క్షేత్ర విశ్లేషణ

Data analysis

3. ✔ దత్తాంశ విశ్లేషణ

Content analysis

4. ✘ విషయ విశ్లేషణ

Question Number : 24 Question Id : 9032011825 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following compound is more basic than aniline

క్రింది వాటిలో ఎనిలీన్ కంటే ఎక్కువ క్షారత్వం గల సమ్మేళనం ఏది?

Options :

1. ✘

Triphenylamine

ట్రైఫినైల్ఎమీన్

4-Nitroaniline

4-నైట్రోఎనిలీన్

2. ✘

Benzylamine

బెంజైల్ఎమీన్

3. ✔

Diphenylamine

డైఫినైల్ఎమీన్

4. ✘

Question Number : 25 Question Id : 9032011826 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is useful for the synthesis of benzoyl chloride from benzoic acid

క్రింది వాటిలో బెంజోయిక్ ఆమ్లం నుండి బెంజోయిల్ క్లోరైడ్‌ను సంశ్లేషణం చేయుటకు ఉపయోగపడునది ఏది?

Options :

$\text{Cl}_2, h\nu$

1. ✘

$\text{Cl}_2, \text{H}_2\text{O}$

2. ✘

3. ✘ SO_2, Cl_2

4. ✔ SOCl_2

Question Number : 26 Question Id : 9032011827 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The cooking gas is mainly composed of

వంట గ్యాస్ సంఘటనం

Options :

Butane and ethane

బ్యూటేన్ మరియు ఈథేన్

1. ✘

Butane and propane

బ్యూటేన్ మరియు ప్రొపేన్

2. ✔

Acetylene and ethane

ఎసిటలీన్ మరియు ఈథేన్

3. ✘

Acetylene and propane

ఎసిటలీన్ మరియు ప్రొపేన్

4. ✘

Question Number : 27 Question Id : 9032011828 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following statement is incorrect about cyclohexane

సైక్లోహెక్సేన్ గురించి క్రింది వాటిలో సరియైన వివరణ కానిది ఏది?

Options :

H atoms occupy equatorial or axial sites

H పరమాణువులు సమలంబరేఖీయ లేదా అక్షీయ స్థానాలను ఆక్రమించుకుంటాయి

1. ✘

Each C atom is sp^3 hybridized

ప్రతి C పరమాణువు sp^3 సంకరీకరణం చెందింది

2. ✘

Cyclohexane suffers ring strain

సైక్లోహెక్సేన్ వలయ ప్రయాసను పొందును

3. ✔

Its ring flips between chair and boat conformations

దాని వలయ కుర్చీ మరియు పడవ అనురూపకాల మధ్య తిరుగుతుంది

4. ✘

Question Number : 28 Question Id : 9032011829 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Aromatic compounds does not undergo

ఎరోమాటిక్ సమ్మేళనాలు చెందని చర్యలు

Options :

Dehydrogenation reactions

1. ✓ డీహైడ్రోజినేషన్ చర్యలు

Coupling reactions

2. ✘ యుగ్మ చర్యలు

Cycloaddition reactions

3. ✘ వలయసంకలన చర్యలు

Halogenations

4. ✘ హలోజనీకరణాలు

Question Number : 29 Question Id : 9032011830 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The reaction $C_2H_5ONa + IC_2H_5 \rightarrow C_2H_5OC_2H_5 + NaI$ is known as

$C_2H_5ONa + IC_2H_5 \rightarrow C_2H_5OC_2H_5 + NaI$ అను చర్య

Options :

Claisen condensation

1. ✘ క్లైసెన్ సంఘననం

Williamson reaction

2. ✓ విలియమ్సన్ చర్య

Claisen-Schmidt reaction

3. ✘ క్లైసెన్-స్కిమ్ట్ చర్య

Wurtz reaction

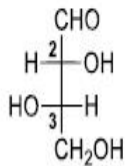
4. ✘ ఉర్ట్ చర్య

Question Number : 30 Question Id : 9032011831 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which is the correct assignment of chiral centers at C2 and C3 positions of the following molecule?

క్రింది అణువులో C2 మరియు C3 స్థానాల వద్ద కైరల్ కేంద్రాల సరియైన నిర్దిష్టత (assignment) ఏది?



Options :

1. ✔ $2R,3S$

2. ✘ $2R,3R$

3. ✘ $2S,3S$

4. ✘

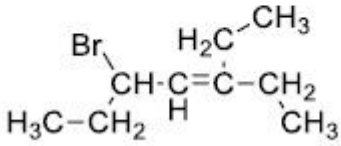
2S,3R

Question Number : 31 Question Id : 9032011832 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The IUPAC name of the following compound is

క్రింది సమ్మేళనం IUPAC నామం



Options :

3-Ethyl-5-bromohept-3-ene

3-ఈథైల్-5-బ్రోమోహెప్ట్-3-ఈన్

1. ✘

3-Bromo-5-ethylhept-4-ene

3-బ్రోమో-5-ఈథైల్హెప్ట్-4-ఈన్

2. ✘

5-Bromo-3-ethylhept-3-ene

5-బ్రోమో-3-ఈథైల్హెప్ట్-3-ఈన్

3. ✔

1,1-diethyl-3-bromopent-1-ene

1,1-డైఈథైల్-3-బ్రోమోపెంట్-1-ఈన్

4. ✘

Question Number : 32 Question Id : 9032011833 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The synthesis of cyanohydrin from a ketone is an example of

కీటోన్ నుండి సయనోహైడ్రిన్ సంశ్లేషణకు ఒక ఉదాహరణ

Options :

Nucleophilic substitution

1. ✘ న్యూక్లియోఫిలిక్ ప్రతిక్షేపణం

Electrophilic substitution

2. ✘ ఎలక్ట్రోఫిలిక్ సంకలనం

Nucleophilic addition

3. ✔ న్యూక్లియోఫిలిక్ సంకలనం

Electrophilic addition

4. ✘ ఎలక్ట్రోఫిలిక్ సంకలనం

Question Number : 33 Question Id : 9032011834 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The number of σ and π -bonds in β -naphthol are

β -నాఫ్టాల్లో σ మరియు π - బంధాల సంఖ్య

Options :

12 and 5

1. ✘ 12 మరియు 5

20 and 5

2. ✔ 20 మరియు 5

7 and 6

3. ✘ 7 మరియు 6

19 and 5

4. ✘ 19 మరియు 5

Question Number : 34 Question Id : 9032011835 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following does not contain C_3 axis?

క్రింది వాటిలో ఏది C_3 అక్షాన్ని కలియుండదు?

Options :

$POCl_3$

1. ✘

H_4N^+

2. ✘

3. ✓ ClF_3

4. ✘ H_3O^+

Question Number : 35 Question Id : 9032011836 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following reaction is useful in the preparation of benzaldehyde from toluene?

టొలీన్ నుండి బెంజాల్డిహైడ్ తయారీకి క్రింది ఏ చర్యను ఉపయోగించవచ్చును?

Options :

Riemer-Tiemann reaction

1. ✘ రీమర్-టీమన్ చర్య

Wurtz reaction

2. ✘ ఉడ్ట్ చర్య

Cannizzaro reaction

3. ✘ కానిజరో చర్య

Etard reaction

4. ✓ ఇటార్డ్ చర్య

Question Number : 36 Question Id : 9032011837 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The decreasing order of covalent character in the following alkali metal halides is

క్రింది ఆల్కలీ లోహహాలైడ్ల కోవలెంట్ ప్రవృత్తి తగ్గు క్రమం

Options :

1. ✘ $MCl > MI > MBr > MF$

2. ✘ $MF > MCl > MI > MBr$

3. ✘ $MF > MCl > MBr > MI$

4. ✔ $MI > MBr > MCl > MF$

Question Number : 37 Question Id : 9032011838 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following element exhibits the maximum number of different oxidation states in its compounds?

క్రింది మూలకాలలో ఏది వాటి సమ్మేళనాలలో అధిక సంఖ్యలో వివిధ ఆక్సీకరణ స్థితులు ప్రదర్శిస్తుంది?

Options :

1. ✓ Am

2. ✘ Cd

3. ✘ Eu

4. ✘ La

Question Number : 38 Question Id : 9032011839 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is a pseudo halogen?

క్రింది వాటిలో ఏది మిథ్యా హలోజన్?

Options :

1. ✘ IF₇

2. ✘ ICl₂

3. ✓ CN⁻

4. ✘ I₃⁻

Question Number : 39 Question Id : 9032011840 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

When reacted xenon and fluorine in the ratio of 1:5 at 873°K temperature and 7 bar pressure forms

873°K ఉష్ణోగ్రత, 7 bar పీడనం వద్ద క్సెనాన్ మరియు ఫ్లోరిన్ 1:5 నిష్పత్తిలో చర్య జరిపినప్పుడు ఏర్పడునది

Options :

1. ✓ XeF_4

2. ✗ XeF_2

3. ✗ XeF_6

4. ✗ XeOF_2

Question Number : 40 Question Id : 9032011841 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The catalytic activity of transition metals and their compounds is mainly due to

పరివర్తన లోహాలు మరియు వాటి సమ్మేళనాల ఉత్పేరక క్రియశీలత ముఖ్యంగా దీనివలన:

Options :

1. ✗ Their magnetic behaviour
వాటి అయస్కాంత స్వభావం

Their ability to show variable oxidation states

వివిధ ఆక్సీకరణ స్థితులను చూపించు సామర్థ్యం

2. ✓

Their fully filled d-orbitals

వాటి పూర్తిగా నిండిన d-ఆర్బిటాల్లు

3. ✘

Their chemical reactivity

వాటి రసాయన క్రియాశీలత

4. ✘

PART B

Group Number : 2

Group Id : 90320116

Group

Maximum 0

Duration :

Group

Minimum 90

Duration :

Show Attended

Group? : No

Edit Attended

Group? : No

Break time : 0

Group Marks : 60

Is this Group

for Examiner? : No

Examiner Cant View

permission :

Show Progress

Bar? :

No

PHYSICS

Section Id : 90320127

Section Number

:

1

Section type : Online

Mandatory or

Optional :

Optional

Number of

Questions :

60

Number of

Questions to be

attempted :

60

Section Marks : 60

Enable Mark as

Answered Mark

for Review and Yes

Clear Response

:

Maximum

Instruction

Time :

0

Sub-Section

Number :

1

Sub-Section Id : 90320129

Question

Shuffling

Allowed :

Yes

Question Number : 41 Question Id : 9032011842 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Fields with no divergence and no curl are represented by
అపసరణ రహిత, కర్ల రహిత క్షేత్రాలను దీనితో సూచిస్తారు

Options :

1. ✘ $\nabla \cdot \mathbf{A} \neq 0$ and $\nabla \times \mathbf{A} = 0$
 $\nabla \cdot \mathbf{A} \neq 0$ మరియు $\nabla \times \mathbf{A} = 0$

2. ✘ $\nabla \cdot \mathbf{A} = 0$ and $\nabla \times \mathbf{A} \neq 0$
 $\nabla \cdot \mathbf{A} = 0$ మరియు $\nabla \times \mathbf{A} \neq 0$

3. ✔ $\nabla \cdot \mathbf{A} = 0$ and $\nabla \times \mathbf{A} = 0$
 $\nabla \cdot \mathbf{A} = 0$ మరియు $\nabla \times \mathbf{A} = 0$

4. ✘ $\nabla \cdot \mathbf{A} \neq 0$ and $\nabla \times \mathbf{A} \neq 0$
 $\nabla \cdot \mathbf{A} \neq 0$ మరియు $\nabla \times \mathbf{A} \neq 0$

Question Number : 42 Question Id : 9032011843 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If \vec{r} is the Position Vector of a point, then curl \vec{r} is equal to
ఒక బిందువు స్థానసదిశ \vec{r} అయినచో కర్ల \vec{r} విలువ దీనికి సమానం

Options :

1. ✘ unity
ఏకత

2. ✓ zero
శూన్యం

3. ✘ 3

4. ✘ $\sqrt{3}$

Question Number : 43 Question Id : 9032011844 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In Rutherford scattering the Impact Parameter $P = 0$, then the scattering angle ' φ ' is equal to

రూథర్ఫోర్డ్ పరిక్షేపణమునందు అభిఘాత పరామితి $P = 0$ అయిన పరిక్షేపణ కోణం ' φ ' విలువ

Options :

1. ✘ zero
శూన్యం

2. ✘ 90°

3. ✘ 45°

4. ✓ 180°

Question Number : 44 Question Id : 9032011845 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A moving ball strikes another of mass 0.2kg at rest and exerts a force of 100N for a time of 10 milliseconds. Find the speed acquired by the ball at rest.

కదులుతు వస్తున్న బంతి, విరామస్థితిలో గల 0.2 kg ద్రవ్యరాశి గల బంతిపై 100N బలాన్ని 10

మిల్లి సెకన్ల కాలంపాటు ప్రయోగించిన, విరామస్థితిలోగల బంతి పొందే వేగాన్ని లెక్కించండి

Options :

10 m/sec

10 మీ/సె

1. ✘

5 m/sec

5 మీ/సె

2. ✔

30 m/sec

30 మీ/సె

3. ✘

15 m/s

15 మీ/సె

4. ✘

Question Number : 45 Question Id : 9032011846 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Precessional velocity of a spinning top is given by:

ఆత్మభ్రమణం చేస్తున్నట్టి బొంగరము యొక్క పురస్పరణ వేగం

Options :

$$\omega_p = \frac{mgr}{\tau}$$

1. ✘

$$\omega_p = \frac{mgr}{\omega}$$

2. ✘

$$\omega_p = \frac{mgr}{I\omega}$$

3. ✔

$$\omega_p = \frac{mg}{I\omega}$$

4. ✘

Question Number : 46 Question Id : 9032011847 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Under the influence of a central force which of the following physical quantity remains constant.

కేంద్రీయ బలాల ప్రాబల్యములో ఈ క్రింది వాటిలో ఏ భౌతిక రాశి స్థిరంగా ఉంటుంది.

Options :

Force

బలం

1. ✘

Torque

టార్క్

2. ✘

Angular momentum

కోణీయ ద్రవ్యవేగం

3. ✔

4. ✘

Potential energy

స్థితిజ శక్తి

Question Number : 47 Question Id : 9032011848 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The height of the Geo-Stationary satellite above the earth's surface is:

భూస్థావర ఉపగ్రహంను భూతలం నుంచి ఎంత ఎత్తుపై పెడతారు.

Options :

42330 KM

42330 కి.మీ.

1. ✘

35930 KM

35930 కి.మీ.

2. ✔

6400 KM

6400 కి.మీ.

3. ✘

78260 KM

78260 కి.మీ.

4. ✘

Question Number : 48 Question Id : 9032011849 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In Rutherford scattering in actual practise the trajectory of alpha particles is:
రూథర్ ఫోర్డ్ పరిక్షేపణమునందు ఆల్ఫా కణం పొందె ప్రక్షేపమార్గం.

Options :

Straight line
సరళరేఖ

1. ✘

Ellipse
దీర్ఘవృత్తము

2. ✘

Hyperbolic
అతిపరావలయము

3. ✔

Circular
వలయం

4. ✘

**Question Number : 49 Question Id : 9032011850 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0**

Correct Marks : 1 Wrong Marks : 0

The phenomenon of diffraction of light by ultrasonic waves passing through a liquid
was first observed by:

అతిధ్వనుల ద్వారా ద్రవంలో కాంతి వివర్తనము చెందుట మొదటిసారి పరిశీలన చేసిన శాస్త్రవేత్త.

Options :

Newton
న్యూటన్

1. ✘

2. ✘

Fraunhofer
ఫ్రాన్ హోఫర్

Huygen
హైజీన్

3. ✘

Debye and Sears
డిబై మరియు సీయర్స్

4. ✔

Question Number : 50 Question Id : 9032011851 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

For detection of ultrasonic waves which of the following method is not used.
అతిధ్వనులను గుర్తించడంలో క్రింది వాటిలో ఏపద్ధతి పనికిరాదు.

Options :

Piezo-electric detector
పీజో-ఎలెక్ట్రిక్ శోధనము

1. ✘

Kundt's tube method
కుండ్ట్-గొట్టం విధానము

2. ✘

SONAR
సోనార్

3. ✔

4. ✘

Sensitive flame method

సున్నితపు జ్వాల పద్ధతి

Question Number : 51 Question Id : 9032011852 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The characteristic impedance (Z) offered by the string is:

తంతి యొక్క అభిలక్షణ అవరోధము (Z) విలువ.

Options :

$$z = \mu v$$

1. ✓

$$z = \sqrt{\mu v}$$

2. ✗

$$z = \sqrt{\frac{v}{\mu}}$$

3. ✗

$$z = \sqrt{\frac{\mu}{v}}$$

4. ✗

Question Number : 52 Question Id : 9032011853 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The fundamental frequency of a sonometer wire increases by 5 Hz if its tension is increased by 21%. What is its fundamental frequency?

సోనామీటర్ ప్రయోగంలో తంతి తన్యత 21% వృద్ధి చెందినప్పుడు ప్రాథమిక పౌనఃపున్యం పెరుగుదల 5 Hz అయిన ప్రాథమిక పౌనఃపున్యం విలువ.

Options :

1. ✘ 40 Hz

2. ✘ 60 Hz

3. ✔ 50 Hz

4. ✘ 100Hz

Question Number : 53 Question Id : 9032011854 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Logarithmic decrement measures the
సంవర్గమాన తగ్గుదల దేనిని సూచిస్తుంది

Options :

1. ✘ Frequency decrement
పౌనఃపున్య తగ్గుదల

2. ✘ Time taken by total mechanical energy to decay $\left(\frac{1}{e}\right)$ of its original value
యాంత్రిక శక్తి మూల విలువ నుండి $\left(\frac{1}{e}\right)$ కి తగ్గేందుకు పట్టే కాలం

The rate at which energy dissipates

శక్తి దుర్బలమయము చెందే రేటు

3. ✘

The rate at which the amplitude decays

కంపన పరిమితి క్షయము చెందే రేటు

4. ✔

Question Number : 54 Question Id : 9032011855 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A particle executing SHM has maximum velocity of 0.4 m/sec and maximum acceleration of 0.8 m.sec^2 . Calculate the time period.

సరళహారాత్మక డోలనాలు చేస్తున్నట్టి కణం యొక్క గరిష్ఠ వేగం 0.4 మీ/సె మరియు గరిష్ఠ త్వరణం

0.8 మీ/సె² మీ అయిన దాని ఆవర్తన కాలం.

Options :

2 sec

2 సె

1. ✘

1 sec

1 సె

2. ✘

3.14 sec

3.14 సె

3. ✔

4. ✘

1.414 sec

1.414 సె

Question Number : 55 Question Id : 9032011856 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

According to Lorentz-Fitzerald the contraction in the length of the rod by a factor of
లారెంజ్-ఫిట్జెరల్డ్ ప్రకారం కడ్డీ పొడవులోని సంకోచకారకము

Options :

$$\sqrt{\left(1 - \frac{v^2}{c^2}\right)}$$

1. ✓

$$\sqrt{\left(1 + \frac{v^2}{c^2}\right)}$$

2. ✘

$$\sqrt{\left(1 - \frac{c^2}{v^2}\right)}$$

3. ✘

$$\sqrt{\left(1 + \frac{c^2}{v^2}\right)}$$

4. ✘

Question Number : 56 Question Id : 9032011857 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is not the refrigerant?

క్రింది వాటిలో ఏది ప్రశీతన పదార్థము కాదు

Options :

NH₃

NH₃

1. ✘

CH₃cl

CH₃cl

2. ✘

Freon

ఫ్రీయాన్

3. ✘

CuSo₄

CuSo₄

4. ✔

Question Number : 57 Question Id : 9032011858 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

For Joule-Thomson Cooling choose the WRONG statement.

జౌల్-థాంసన్ శీతలీకరణముకు సంబంధించి తప్పుడు వివరణ

Options :

$$T_i = \frac{2a}{Rb}$$

1. ✘

2. ✓ $T_i = \frac{a}{b}$

If $\frac{2a}{Rb} < b$, $dT = \text{negative}$, there will be heating effect

$\frac{2a}{Rb} < b$, అయినచో $dT = \text{ఋణాత్మకము}$, ఊష్ణ ప్రభావం ఉంటుంది

3. ✘

if $\frac{2a}{Rb} > b$ $dT = \text{Positive}$, there will be colling effect

$\frac{2a}{Rb} > b$, అయినచో $dT = \text{ధనాత్మకము}$, శీతలీకరణ ప్రభావం చూపుతుంది

4. ✘

Question Number : 58 Question Id : 9032011859 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Clausius-Clapeyron Latent heat equation is
క్లాసియస్ క్లాపరెయాన్ యొక్క గుప్తోష్ణము సమీకరణం

Options :

1. ✓ $\frac{dp}{dT} = \frac{L}{T(v_2 + v_1)}$

2. ✘ $\frac{dp}{dT} = \frac{L}{(v_2 - v_1)}$

2. ✘

3. ✘ $\frac{dp}{dT} = \frac{T}{L(v_2 - v_1)}$

3. ✘

$$\frac{dp}{dT} = \frac{L}{T(p_2 - p_1)}$$

4. ✘

Question Number : 59 Question Id : 9032011860 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Helmoltz free energy or work function is given by:

హెల్మోల్ట్స్ స్వేచ్ఛశక్తి లేదా పని ప్రమేయం

Options :

1. ✘ $H = U + PV$

2. ✘ $G = H - TS$

3. ✔ $F = U - TS$

4. ✘ $dQ = dU + PdV$

Question Number : 60 Question Id : 9032011861 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How much work must be done to transfer 10 joule of heat from the reservoir at 7°C to one at 27 °C by means of a refrigerator using Carnot cycle.

కార్నాట్ యంత్రంలో ప్రశీతనం ద్వారా 10 జౌళ్ళు ఉష్ణశక్తిని 7°C రిజర్వాయర్ నుండి 27 °C కు బదిలీకి జరిపే పని విలువ ఎంత

Options :

0.0714 joule

0.0714 జౌళ్ళు

1. ✘

0.714 joule

0.714 జౌళ్ళు

2. ✔

1.414 joule

1.414 జౌళ్ళు

3. ✘

1.713 joule

1.713 జౌళ్ళు

4. ✘

Question Number : 61 Question Id : 9032011862 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If \bar{C} average speed, C_p is most probable speed and r.m.s speed is C_{rms} of a gas at any temperature, the relation among these are

ఏదేని ఉష్ణోగ్రత వద్ద వాయువు సరాసరి వేగం \bar{C} , సంభావ్యవేగం C_p మరియు r.m.sవేగం C_{rms} అయిన చో వీటి మధ్య సంబంధం.

Options :

$$C_{rms} > \bar{C} > C_p$$

1. ✔

2. ✘ $\bar{C} > C_{rms} > C_p$

3. ✘ $C_p > C_{rms} > \bar{C}$

4. ✘ $C_{rms} = \bar{C} = C_p$

Question Number : 62 Question Id : 9032011863 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In diffusion of gases the coefficient of diffusion is given by

వాయువు విసరణములో వాయువు విసరణ గుణకం విలువ

Options :

1. ✘ $D \propto T^{1/2} p^{-1}$

2. ✘ $D \propto T^4 p^{-1}$

3. ✘ $D \propto T^3 p^{-2}$

4. ✔ $D \propto T^{3/2} p^{-1}$

Question Number : 63 Question Id : 9032011864 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Relation between the efficiency 'n' of a Carnot's engine and coefficient of performance K of Carnot's refrigerator is

కార్నాట్ యంత్రం దక్షత 'n' మరియు కార్నాట్ ప్రశీతన పని గుణకం K మధ్యగల సంబంధం

Options :

1. ✘
$$\eta = \frac{1}{k-1}$$

2. ✔
$$\eta = \frac{1}{k+1}$$

3. ✘
$$\eta = \frac{T}{k-1}$$

4. ✘
$$\eta = \frac{T_1 - T_2}{k+1}$$

Question Number : 64 Question Id : 9032011865 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In Huygens eyepiece two plano-convex lense of focal lengths are:

హైజీన్ అక్షికటకంలోని రెండు సమతల-కుంభాకార కటకాల నాభ్యంతర విలువలు:

Options :

5f and f
5f మరియు f

1. ✖

4f and f
4f మరియు f

2. ✖

3f and f
3f మరియు f

3. ✔

9f and 3f
9f మరియు f

4. ✖

Question Number : 65 Question Id : 903201866 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Lens makers formula for thin Lens is given by:
పలుచని కటకం తయారుచేసే ఫార్ములా

Options :

$$\frac{1}{f} = (\mu - 1) \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$$

1. ✔

$$\frac{1}{f} = (\mu + 1) \left(\frac{1}{R_1} + \frac{1}{R_2} \right)$$

2. ✖

3. ✖

$$\frac{1}{f} = \frac{1}{(\mu - 1)} \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$$

$$f = (\mu - 1) \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$$

4. ✘

Question Number : 66 Question Id : 9032011867 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Interference by the method of division of amplitude is an example of:
కంపన పరిమితి విభజనము పద్ధతి ద్వారా వ్యతీకరణము చెందే దాని ఉదాహరణ

Options :

Fresnel Biprism
ఫ్రెస్నెల్ బైప్రిస్మ్

1. ✘

Lloyd's mirror
లాయిడ్ మిర్రర్

2. ✘

Newton's rings
న్యూటన్ వలయాలు

3. ✔

Nicol Prism
నికాల్ ప్రిజమ్

4. ✘

Question Number : 67 Question Id : 9032011868 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The ratio of intensity of the maxima and minima of interference fringes is 25:9.

Determine the ratio of intensities of the two interference beams are:

వ్యతీకరణ పట్టిలలో ఏర్పడే గరిష్ఠ మరియు కనిష్ఠ తీవ్రతల నిష్పత్తి 25:9 అయినచో రెండు వ్యతీకరణ పుంజాల తీవ్రతల నిష్పత్తి విలువలు

Options :

5 : 3

1. ✘

4 : 1

2. ✘

3. ✔ 16 : 1

4. ✘ 16 : 9

Question Number : 68 Question Id : 9032011869 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The diameter of the 10th bright ring in Newton's ring setup changes from 1.4 to 1.27 cm as liquid is introduced between the lens and glass plate. The refractive index of the liquid is

న్యూటన్ వలయ ప్రయోగంలో కటకం మరియు గాజు పలకల మధ్యద్రవం పోసినప్పుడు పదవ వలయ ద్యుతిమయ వ్యాసం 1.47 నుండి 1.27 సె.మీ తగ్గింది. ద్రవం యొక్క వక్రీభవన గుణకం లెక్కించడం

Options :

1.4

1. ✘

2. ✓ 1.215

3. ✘ 1.5

4. ✘ 0.793

Question Number : 69 Question Id : 9032011870 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Calculate the minimum thickness of the plate if the ordinary and extra-ordinary rays coming out mix up to form plane polarized light, given $\lambda = 6000 \text{ \AA}$, $\mu_e = 1.562$, and $\mu_o = 1.552$

సాధారణ మరియు అసాధారణ కిరణ కలయిక వల్ల ఏర్పడే సమతల దృవణకాంతిని పొందడానికి వాడే పలక కనిష్ఠ మందమును కనుక్కోండి

Options :

1. ✓ $3.3 \times 10^{-3} \text{ cm}$
 $3.3 \times 10^{-3} \text{ సె. మీ}$

2. ✘ $1.414 \times 10^{-3} \text{ cm}$
 $1.414 \times 10^{-3} \text{ సె. మీ}$

3. ✘ $3.8 \times 10^{-3} \text{ cm}$
 $3.8 \times 10^{-3} \text{ సె. మీ}$

$$1.136 \times 10^{-3} \text{ cm}$$

$$1.136 \times 10^{-3} \text{ సె.మీ}$$

4. ✘

Question Number : 70 Question Id : 9032011871 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Calculate the specific rotation if the plane of polarization is turned through 26.4° , traversing 20cm length of 20% sugar solution.

20% చక్కెర ద్రావణంలో ధృవణకాంతి 20 సెం.మీ దూరం ప్రయాణించడంలో ధృవణతలం పరివర్తన స్థానం 26.4° మారింది. విశిష్ట భ్రమణంను లెక్కింపుము.

Options :

$$6.6^\circ$$

1. ✘

$$66^\circ$$

2. ✔

$$30^\circ$$

3. ✘

$$33^\circ$$

4. ✘

Question Number : 71 Question Id : 9032011872 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If dielectric break down of air is 3×10^6 volt/mt. The charge that a metallic sphere of radius 1 cm can hold:

గాలి యొక్క విద్యుత్ రోధక భంజన విలువ 3×10^6 volt/mt. 1 సె.మీ వ్యాసార్థం గల గోళంలో నిల్వ ఉండే ఆవేశం విలువ

Options :

1. ✓ 33 nc
2. ✘ 33 mc
3. ✘ 33 μ c
4. ✘ 10 μ c

Question Number : 72 Question Id : 9032011873 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Choose the wrong statement related to electric lines of forces.
విద్యుత్ క్షేత్ర రేఖలకు సంబంధించి తప్పు వివరణ

Options :

1. ✘ No two lines of forces intersect each other
ఏ రెండు రేఖలు ఒకదానిని ఒకటి ఖడించవు
2. ✘ The electric lines of forces intersect each other
విద్యుత్ క్షేత్ర రేఖలు సమీకృతలానికి లంబంగా ఉంటాయి
3. ✓ Electric lines of forces start on negative charge and end on positive charge
విద్యుత్ క్షేత్ర రేఖలు ఋణాత్మక ఆవేశం నుంచి ప్రారంభమై ధనాత్మక ఆవేశం వద్దకు చేరుతాయి
4. ✘

The tangent drawn at any point on the line gives the direction of electric field at that point.

రేఖపై ఏదేని బిందువు వద్ద గీయబడిన స్పర్శరేఖ ఆ బిందువు వద్ద విద్యుత్ క్షేత్ర దిశను చూపుతుంది

Question Number : 73 Question Id : 9032011874 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Find the distance between two consecutive equipotential surfaces which are diffracted by one volt to a point charge of 1.5×10^{-8} coulombs.

కణ ఆవేశం 1.5×10^{-8} కూలుంబ్స్ కలిగి రెండు సమీకకృతలాల మధ్య 1volt పొటెన్షియల్ బేధం ఉన్నట్టి వాటి మధ్య దూరం ఎంత.

Options :

1. ✘
13.5 m
13.5 మీ
2. ✘
12.28 m
12.28 మీ
3. ✔
1.22 m
1.22 మీ
4. ✘
9 m
9 మీ

Question Number : 74 Question Id : 9032011875 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

An attracted disc electrometer has a moving plate area of 100 cm^2 , separated by a distance of 1 mm from the fixed plate. Calculate the force between the plates when potential difference across them is 100 V is.

ఆకర్షణీయ పశ్చెం ఎలక్ట్రోమీటరు కదిలే పలక వైశాల్యం $100(\text{సె.మీ})^2$. ఇది స్థిర పలక నుంచి 1 మిమీ దూరంలో కలదు. వీటి మధ్య 100 V పొటెన్షియల్ బేధం ఉన్న వీటి మధ్యగల బలమెంత.

Options :

$4.42 \times 10^{-2} \text{ N}$

$4.42 \times 10^{-2} \text{ న్యూటన్}$

1. ✘

$4.42 \times 10^{-4} \text{ N}$

$4.42 \times 10^{-4} \text{ న్యూటన్}$

2. ✔

$5.52 \times 10^{-3} \text{ N}$

$5.52 \times 10^{-3} \text{ న్యూటన్}$

3. ✘

10 N

10 న్యూటన్

4. ✘

Question Number : 75 Question Id : 9032011876 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Dielectric polarization \vec{p} is defined as

విద్యుత్ రోధక ధృవణం యొక్క నిర్వచనం

Options :

Electric dipole moment per unit length

ఏకాంక పొడవు యొక్క విద్యుత్ ద్విధ్రువ భ్రామకం

1. ✘

2. ✘

Electric dipole moment per unit area

ఏకాంక వైశాల్యం యొక్క విద్యుత్ ద్విధ్రువ భ్రామకం

3. ✓

Electric dipole moment per unit volume

ఏకాంక ఘనపరిమానం యొక్క విద్యుత్ ద్విధ్రువ భ్రామకం

Electric dipole moment per unit time

ఏకాంక కాలం యొక్క విద్యుత్ ద్విధ్రువ భ్రామకం

4. ✘

Question Number : 76 Question Id : 9032011877 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Clausius-Mosotti equation for the molecular polarizability is given by:

అణువు ధ్రువణతకు సంబంధించిన క్లాసియస్ మోసెట్టి సమీకరణం

Options :

1. ✘

$$\alpha = 3 \epsilon_0 \left(\frac{k-1}{k+2} \right)$$

2. ✘

$$\alpha = \frac{\epsilon_0}{n} \left(\frac{k-1}{k+2} \right)$$

3. ✘

$$\alpha = \frac{8 \epsilon_0}{n} \left(\frac{k-1}{k+2} \right)$$

4. ✓

$$\alpha = \frac{3 \epsilon_0}{n} \left(\frac{k-1}{k+2} \right)$$

Question Number : 77 Question Id : 9032011878 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Choose the WRONG statement related to magnetic Induction.
అయస్కాంత ప్రేరణకు సంబంధించిన తప్పు వివరణ

Options :

$$\text{Webner} / \text{m}^2 = \text{Tesla}$$

వెబ్నర్ / మీ² = టెస్లా

1. ✘

$$\text{One Tesla} = 10^4 \text{ Gauss}$$

ఒక టెస్లా 10⁴ = గాస్

2. ✘

$$\text{Webner} / \text{m}^2 = \text{newton} / \text{amp. meter}$$

వెబ్నర్ / మీ² = న్యూటన్ / అంపియర్. మీ.

3. ✘

$$\text{One Gauss} = 10^4 \text{ Tesla}$$

ఒక గాస్ = 10⁴ టెస్లా

4. ✔

Question Number : 78 Question Id : 9032011879 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

When a charged particle is moving perpendicular to the magnetic field which of the following statement is WRONG.

ఆవేశిత కణం అయస్కాంత క్షేత్రానికి లంబంగా ప్రయాణించిన క్రింది వాటిలో దీనికి సంబంధించి తప్పు వివరణ

Options :

1. ✘ Work done by the magnetic field on charged particle is zero
అయస్కాంత క్షేత్రం ద్వారా ఆవేశిత కణంపై జరిపే పని శూన్యం
2. ✘ The path travelled by charged particle is Circular
ఆవేశిత కణం వలయాకారంలో ప్రయాణిస్తుంది
3. ✔ The path travelled by charged particle is Parabola
ఆవేశిత కణం పల వలయాకారంలో ప్రయాణిస్తుంది
4. ✘ There is no change in the Kinetic energy of the Particle
కణం గతిజశక్తిలో మార్పు ఉండదు

Question Number : 79 Question Id : 9032011880 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Two infinitely long Parallel conductors placed one meter apart in vacuum carries a current of one ampere in each conductor in same direction will attract each other with a force per unit length of:

అనంత పొడవైన రెండు వాహకాలు శూన్యంలో సమాంతరంగా ఒక మీటరు దూరంతో అమర్చబడి యున్నాయి. ఈ రెండింటిలో ఒకే దిశలో ఒక అంపియర్ విద్యుత్తును పంపినచో వీటి మధ్య ఏకాంక పొడవులో ఏర్పడే ఆకర్షణ బలం విలువ. న్యూ/మీ

Options :

1. ✘ 4×10^{-7} N/m
 4×10^{-7} న్యూ/మీ

$$2 \times 10^{-7} \text{ N/m}$$
$$2 \times 10^{-7} \text{ న్యూటన్/మీటర్}$$

2. ✓

$$4\pi \times 10^{-7} \text{ N/m}$$
$$4\pi \times 10^{-7} \text{ న్యూటన్/మీటర్}$$

3. ✘

$$2\pi \times 10^{-7} \text{ N/m}$$
$$2\pi \times 10^{-7} \text{ న్యూటన్/మీటర్}$$

4. ✘

Question Number : 80 Question Id : 9032011881 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The concept of displacement current was introduced by:

స్థానభ్రంశ విద్యుత్ భావనను ఇచ్చిన శాస్త్రవేత్త

Options :

Ampere
అంపియర్

1. ✘

Maxwell
మ్యాక్స్వెల్

2. ✓

Faraday
ఫారాడె

3. ✘

4. ✘

Question Number : 81 Question Id : 9032011882 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the power factor of a circuit containing a coil of resistance $30\ \Omega$ and
reactance of $30\ \Omega$.

$30\ \Omega$ నిరోధము మరియు $30\ \Omega$ ల ప్రతిరోధము కలుపబడిన వలయం యొక్క శక్తి కారకము విలువ

Options :

1. ✘ $\frac{1}{2}$

2. ✔ $\frac{1}{\sqrt{2}}$

3. ✘ $\frac{\sqrt{3}}{2}$

4. ✘ 1

Question Number : 82 Question Id : 9032011883 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The P-N diode cannot be used as:

P-N డయోడ్ దీనికి పనికిరాదు

Options :

Rectifier

ఏక దిక్కురణి

1. ✘

Switch

స్విచ్

2. ✘

De-modulator

డి-మాడ్యులేటర్

3. ✘

amplifier

వర్ధకము

4. ✔

Question Number : 83 Question Id : 9032011884 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Positive Feedback is used in

ధనాత్మక పునర్నివిష్టము దీనిలో వాడుతారు

Options :

amplifier

వర్ధకము

1. ✘

2. ✔

oscillator
డోలనం

3. ✖ Rectifier
ఏకదిక్కురణి

4. ✖ Voltage regulators
వోల్టేజి నియంత్రిని

**Question Number : 84 Question Id : 9032011885 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0**

Correct Marks : 1 Wrong Marks : 0

Zener diode can be used as:
జీనార్ డయోడ్ను దీనికి వాడుతారు

Options :

1. ✖ current regulation
కరెంటు నియంత్రినిగా

2. ✔ voltage regulation
వోల్టేజి నియంత్రినిగా

3. ✖ amplifier
వర్ధకం

4. ✖ oscillator
డోలకం

Question Number : 85 Question Id : 9032011886 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Production and detection of electromagnetic waves is done by:

విద్యుదయస్కాంత తరంగాల ఉత్పాదనం మరియు శోధనం ఈ పరికరం ద్వారా చేయవచ్చును

Options :

Magnetostriction method

అయస్కాంత నిరూపణ పద్ధతి

1. ✘

Kundt's tube method

కుండ్ట్ గొట్టం పద్ధతి

2. ✘

Davison-Germer experiment

డేవిసన్ జర్మర్ ప్రయోగం

3. ✘

Hertz experiment

హెర్ట్జ్ ప్రయోగం

4. ✔

Question Number : 86 Question Id : 9032011887 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The binding energy per nuclear for C^{12} is 7.68 MeV and that for C^{13} is 7.47 MeV. Calculate the energy required to remove a neutron from C^{13} is.

ఏకాంక న్యూక్లియాన్ బంధక శక్తి C^{12} కు 7.68 MeV మరియు C^{13} కు 7.47 MeV. ఒక న్యూట్రాన్‌కు C^{13} నుంచి తొలగించడానికి కావల్సిన శక్తి విలువ

Options :

2.10 MeV

1. ✘

4.95 MeV

2. ✔

7.11 MeV

3. ✘

3.35 MeV

4. ✘

Question Number : 87 Question Id : 9032011888 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The packing fraction significance is
సంపుటికరణ భిన్నము యొక్క ప్రాముఖ్యత

Options :

Negative packing fraction implies nucleus is highly stable
ఋణాత్మక సంపుటికరణ భిన్నం కేంద్రక స్థిరత్వాన్ని సూచిస్తుంది

1. ✔

Negative packing fraction implies nucleus is un stable
ఋణాత్మక సంపుటికరణ భిన్నం కేంద్రక అస్థిరత్వాన్ని తెలుపుతుంది

2. ✘

Positive packing fraction implies nucleus is stable
ధనాత్మక సంపుటికరణ భిన్నం కేంద్రక స్థిరత్వాన్ని సూచిస్తుంది

3. ✘

Packing fraction is independent of nuclear stability
సంపుటికరణ భిన్నానికి మరియు కేంద్రక స్థిరాన్నికి మధ్య సంబంధం లేదు

4. ✘

Question Number : 88 Question Id : 9032011889 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Determine the reduced mass of electron in hydrogen atom $M = \text{mass of nucleus of hydrogen}$
atom $m = \text{mass of electron}$.

హైడ్రోజన్ పరమాణువులోని ఎలక్ట్రాన్ కు సంబంధించిన క్షయాకరించు ద్రవ్యరాశి (μ) వెలకట్టండి.

$M = \text{హైడ్రోజన్ పరమాణువు కేంద్రక ద్రవ్యరాశి}$ $m = \text{ఎలక్ట్రాన్ ద్రవ్యరాశి}$.

Options :

$$\mu = \frac{M + m}{Mm}$$

1. ✘

$$\mu = \frac{M - m}{Mm}$$

2. ✘

$$\mu = \frac{Mm}{m + M}$$

3. ✔

$$\mu = \frac{mM}{(m + M)^2}$$

4. ✘

Question Number : 89 Question Id : 9032011890 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If 'n' represents principal quantum number, the energy of electron and its distance from the nucleus of hydrogen atom are:

ప్రాధాన క్వాంటమ్ సంఖ్య 'n' అయినచో, హైడ్రోజన్ పరమాణువు కేంద్రకం నుంచి ఎలక్ట్రాన్ శక్తి మరియు దూరం విలువలు

Options :

$$E_n = \frac{-13.6}{n} eV \quad ; \quad r_n = 0.529 n^2 A^\circ$$

1. ✘

$$E_n = \frac{+13.6}{n^2} eV \quad ; \quad r_n = 0.529 n^2 A^\circ$$

2. ✘

$$E_n = \frac{-13.6}{n^2} eV \quad ; \quad r_n = 0.529 n A^\circ$$

3. ✘

$$E_n = \frac{-13.6}{n^2} eV \quad ; \quad r_n = 0.529 n^2 A^\circ$$

4. ✔

Question Number : 90 Question Id : 9032011891 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Binding energy per nucleon is maximum for ఏకాంక కేంద్రీయ బంధక శక్తి గరిష్టము కల్గిన మూలకం

Options :

1. ✓
Iron
ఇనుము

2. ✘
Gold
బంగారము

3. ✘
Silver
వెండి

4. ✘
Copper
రాగి

Question Number : 91 Question Id : 9032011892 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Larmor precessional frequency of an electron is given by:
ఎలక్ట్రాన్ యొక్క లార్మర్ పురస్పరణ పౌనఃపున్యం విలువ

Options :

1. ✓
$$f_p = \frac{eB}{4\pi m_e}$$

2. ✘
$$f_p = \frac{eB}{2\pi m_e}$$

$$f_p = \frac{eB}{2m_e}$$

3. ✘

$$f_p = \frac{e}{2m_e B}$$

4. ✘

Question Number : 92 Question Id : 9032011893 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following statement is true for wavelength (λ_{\min}) of X-rays.

X-కిరణాల కనిష్ఠ తరంగ దైర్ఘ్యానికి (λ_{\min}) సంబంధించిన ఒప్పు వివరణ

Options :

λ_{\min} depend on the nature of target material

λ_{\min} విలువ టార్గెట్ పదార్థంపై ఆధారపడింది

1. ✘

λ_{\min} is independent of applied voltage

λ_{\min} విలువ అనువర్తిత వోల్టేజిపై ఆధారపడదు

2. ✘

λ_{\min} does not depend on the nature of target material

λ_{\min} విలువ టార్గెట్ పదార్థంపై ఆధారపడదు

3. ✔

$$\lambda_{\min} = \frac{12400}{\sqrt{V}} \text{ \AA}$$

4. ✘

Question Number : 93 Question Id : 9032011894 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Ruby Laser was first invented by:
రూబీ లేజర్ మొట్ట మొదటి రూపకల్పకుడు

Options :

Einstein
ఐన్‌స్టీన్

1. ✘

Ali Javan
అలి జావన్

2. ✘

Theodore Maiman
తీయోడోర్ మైమాన్

3. ✔

William Bennett
విల్లియమ్ బెన్నెట్

4. ✘

Question Number : 94 Question Id : 9032011895 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the de-Broglie Wavelength of an electron which has been accelerated from rest to a potential difference of 150V.

విరామ స్థితి నుంచి 150V పొటెన్షియల్ భేధానికి త్వరణం చెందిన ఎలక్ట్రాన్ యొక్క డీ-బ్రోగ్లీ తరంగ దైర్ఘ్యం విలువ

Options :

1 A°

1. ✓

1.25 A°

2. ✘

1.73 A°

3. ✘

12.25 A°

4. ✘

Question Number : 95 Question Id : 9032011896 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Energy operator is given by:

శక్తి పరిక్రియ కారకము

Options :

$$-ith\nabla$$

1. ✘

$$ith\frac{\partial}{\partial t}$$

2. ✓

$$\frac{i}{h}\frac{\partial}{\partial t}$$

3. ✘

ith▽

4. ✖

Question Number : 96 Question Id : 9032011897 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

One Curie is equal to:

ఒక క్యూరీ విలువ దీనికి సమానం

Options :

3.7×10^7 dis/sec

1. ✖

1×10^6 dis/sec

2. ✖

3.7×10^{10} dis/sec

3. ✔

1×10^7 dis/sec

4. ✖

Question Number : 97 Question Id : 9032011898 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following crystals have Largest Symmetry
క్రింది వాటిలో అధిక సౌష్ఠ్యము కల్గిన స్ఫటికం ఏది

Options :

Triclinic
ట్రెక్లినిక్

1. ✘

Tetragonal
టెట్రాగొనల్

2. ✘

Cubic
క్యూబిక్

3. ✔

Hexagonal
హెక్సాగొనల్

4. ✘

Question Number : 98 Question Id : 903201899 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following particles obeys Bose-Einstein statistics
బోస్-ఐన్‌స్టీన్ సాంఖ్యిక శాస్త్రంను అనుసరించే కణాలు

Options :

Leptons
లెప్టాన్స్

1. ✘

2. ✔

Mesons
మీసాన్స్

Baryons
బెరియాన్స్

3. ✘

Hyperons
హైపరాన్స్

4. ✘

Question Number : 99 Question Id : 9032011900 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the mass number 'A' of a nucleus whose radius is $r = 2.71$ Fermi.

Given $r_0 = 1.3 \times 10^{-15}$ m

కేంద్రక వ్యాసార్థము $r = 2.71$ ఫెర్మీగల మూలకం యొక్క పరమాణు భారం 'A' విలువ ఎంత.

$r_0 = 1.3 \times 10^{-15}$ మీ.

Options :

8

1. ✔

6

2. ✘

4

3. ✘

4. ✘

Question Number : 100 Question Id : 9032011901 Question Type : MCQ Option Shuffling : Yes Is
 Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
 Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Formula for Lattice energy of the crystal

స్పటికం యొక్కం జాలకం శక్తికి ఫార్ములా

Options :

1. ✘
$$U_0 = \frac{-Ae^2}{r}$$

2. ✔
$$U_0 = \frac{-Ae^2}{r_0} \left(1 - \frac{1}{n}\right)$$

3. ✘
$$U_0 = \frac{Ae^2}{r_0} \left(1 - \frac{1}{n^2}\right)$$

4. ✘
$$U_0 = \frac{Ae}{r_0} \left(1 - \frac{1}{n}\right)$$

Section Id : 90320128

Section Number : 2

Section type : Online

Mandatory or Optional : Optional

Number of Questions : 60

Number of Questions to be attempted : 60

Section Marks : 60

Enable Mark as Answered Mark for Review and Clear Response : Yes

Maximum Instruction Time : 0

Sub-Section Number : 1

Sub-Section Id : 90320130

Question Shuffling Allowed : Yes

Question Number : 101 Question Id : 9032011902 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which bacterium causes syphilis disease in human beings
మానవులలో సిఫిలిస్ వ్యాధిని కలుగజేసే బాక్టీరియం

Options :

Clostridium

క్లోస్ట్రీడియం

1. ✘

Treponema

ట్రెపోనిమా

2. ✔

Neisseria

నీస్సేరియా

3. ✘

Corynebacterium

కోరినేబాక్టీరియం

4. ✘

Question Number : 102 Question Id : 9032011903 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Example for Photoheterotrophic bacteria

ఫోటోహెటెరోట్రోఫిక్ బ్యాక్టీరియాకు ఉదాహరణ

Options :

Rhodospirillum

రోడోస్పిరిల్లమ్

1. ✔

Chromatium

క్రోమాటియం

2. ✘

3. ✖ *Beggiota*
బెగ్గియోటా

4. ✖ *Nitrobacter*
నైట్రోబాక్టర్

Question Number : 103 Question Id : 9032011904 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Father of Phycology
ఫైకాలజీ యొక్క పితామహుడు

Options :

1. ✖ Suxena
సుక్సేనా

2. ✔ Fritsch
ఫ్రిట్జ్

3. ✖ DeBary
డిబార్

4. ✖ Leevanhoek
లీవాన్ హూక్

Question Number : 104 Question Id : 9032011905 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The first discovered virus is
మొదటిసారిగా కనుగొన్న వైరస్

Options :

1. ✘ Influenza
ఇన్ఫ్లుంజా

2. ✔ TMV
టియమ్వి

3. ✘ HIV
హెచ్ఐవి

4. ✘ Rabies
రాబీస్

Question Number : 105 Question Id : 9032011906 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The structure which is responsible for nitrogen fixation in Blue green Algae is
నీలి ఆకుపచ్చ అల్గేలో నత్రజని స్థిరీకరణకు బాధ్యత వహించే నిర్మాణం

Options :

1. ✘ Hormogonium
హోమోగోనియం

2. ✘ Akinete
అకినెట్

3. ✔ Heterocyst
హిటోరోసిస్ట్

4. ✘ cap cell
క్యాప్ సెల్

Question Number : 106 Question Id : 9032011907 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The Pigment, which is responsible for red colour in Rhodobhyceae is
రోడోఫైసిలో ఎరుపు రంగుకు గల కారణమయ్యే వర్ణద్రవ్యం

Options :

1. ✔ Phycoerythrin
ఫైకోరిథిరిన్

2. ✘ Phycocyanin
ఫైకోసైనిన్

3. ✘ Carotene
కెరోటిన్

4. ✘ Xanthophyll
క్సాంతోఫిల్

Question Number : 107 Question Id : 9032011908 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which Algae exhibits “diplohaplontic life cycle”
ఏ ఆల్గేలో డిప్లోహాప్లాంటిక్ లైఫ్ సైకిల్ ని ప్రదర్శిస్తుంది

Options :

1. ✘ *Volvox*
వోల్వోక్స్

2. ✘ *Polysiphonia*
పాలిసైఫోనియా

3. ✘ *Oedogonium*
ఊడోగోనియం

4. ✔ *Ectocarppus*
ఎక్టోకార్పస్

Question Number : 108 Question Id : 9032011909 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Sexual reproduction is not found in the following fungus
ఈ క్రింది ఫంగస్‌లో లైంగిక ప్రత్యుత్పత్తి కనిపించదు

Options :

1. ✔

Cercospora
సెర్కోస్పోరా

2. ✘ *Puccinia*
పక్షినియా

3. ✘ *Albugo*
అబ్బుగో

4. ✘ *Saccharomyces*
శాఖరోమైసిస్

Question Number : 109 Question Id : 9032011910 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Litmus test dye is extracted from
లిట్మస్ టెస్ట్ డై నుండి సంగ్రహించబడుతుంది

Options :

1. ✘ *Parmelia*
పార్మెలియా

2. ✔ *Rocella*
రోసెల్లా

3. ✘

Leonora

లియోనోరా

Usnea

అస్సియా

4. ✖

Question Number : 110 Question Id : 9032011911 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The wonder drug 'penicillin' is obtained from

'పెన్సిలిన్' అనే అద్భుత ఔషధం దీని నుండి లభిస్తుంది

Options :

Penicillium chrysogenum

పెన్సిలియం క్రోసోజెనం

1. ✖

Penicillium expansum

పెన్సిలియం ఎక్స్పాన్సమ్

2. ✖

Penicillium notatum

పెన్సిలియం నోటేటం

3. ✔

Penicillium Citrinum

పెన్సిలియం సిట్రీనమ్

4. ✖

Question Number : 111 Question Id : 9032011912 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Embryo formation was first observed in
పిండం ఏర్పడటం మొదట గమనించబడింది

Options :

1. ✘ Pteridophytes
టెరిడోఫైట్స్

2. ✘ Thallophytes
థాలోఫైట్స్

3. ✔ Bryophytes
బ్రయోఫైట్స్

4. ✘ Spermatophytes
స్పెర్మటోఫైట్స్

Question Number : 112 Question Id : 9032011913 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Father of Palaeobotany
పాలియోబోటనీ పితామహుడు

Options :

1. ✘ J.C. Bose
జె.సి. బోస్

2. ✓ Birbal sahni
బీర్బల్ సాహ్ని

3. ✘ MOP Iyengar
యం.ఓ.పి అయ్యంగార్

4. ✘ Spornee
స్పొర్నీ

Question Number : 113 Question Id : 9032011914 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The juvenile stage of Moss plant is
నాచు మొక్క యొక్క బాల్యదశ

Options :

1. ✓ Protonema
ప్రోటోనెమా

2. ✘ Sporophyte
స్పోరోఫైట్

3. ✘ Gametophyte
గేమ్టోఫైట్

4. ✘ Prothallus
ప్రోథాలస్

Question Number : 114 Question Id : 9032011915 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The pteridophyte that is used as biofertilizer
జీవ ఎరువుగా ఉపయోగించే ప్టెరిడోఫైట్

Options :

1. ✘ *Anabaena*
అనాబీనా

2. ✘ *Nostoc*
నోస్టాక్

3. ✔ *Azolla*
అజోల్లా

4. ✘ Fern
ఫెర్న్

Question Number : 115 Question Id : 9032011916 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The ploidy of endosperm in Gymnosperms is
జిమ్నోస్పెర్మిలలో ఎండోస్పెర్మ్ యొక్క ప్లోయిడి

Options :

1. ✔

Haploid
హాప్లాయిడ్

2. ✖ Diploid
డిప్లాయిడ్

3. ✖ Triploid
ట్రీప్లాయిడ్

4. ✖ Tetraploid
టెట్రాప్లాయిడ్

Question Number : 116 Question Id : 9032011917 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

'Ephedrine', stimulant of nervous system is obtained from
నాడీ వ్యవస్థను ఉత్తేజపరిచే 'ఎఫెడ్రైన్' నుంచి లభిస్తుంది.

Options :

1. ✖ Angiosperms
యాంజియోస్పెర్మ్స్

2. ✖ Fungus
ఫంగస్

3. ✖ Bacterium
బాక్టీరియం

Gymnosperm

జిమ్నోస్పెర్మ్

4. ✓

Question Number : 117 Question Id : 9032011918 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The fossil in which the external morphology of the plant part is clearly visible can be
termed as

మొక్కల గతం యొక్క బాహ్య స్వరూపం స్పష్టంగా కనిపించే శిలాజాన్ని ఇలా పేర్కొనవచ్చు.

Options :

Casts

కాస్ట్లు

1. ✓

Molds

అచ్చులు

2. ✘

Compression

కంప్రెషన్

3. ✘

Petrification

పెట్రీఫికేషన్

4. ✘

Question Number : 118 Question Id : 9032011919 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

“Species Plantarum” book was written by

‘జాతులు ప్లాంటారం’ పుస్తకాన్ని రచించారు

Options :

Theophrastus

థియోఫ్రాస్టస్

1. ✘

Benthom & Hooker

బెంథమ్ & హూకర్

2. ✘

Linnaeus

లిననాయస్

3. ✔

A.P. Decondolle

ఎ.పి.డెకాన్డెల్ల

4. ✘

Question Number : 119 Question Id : 9032011920 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Aggregate fruit is found in

మొత్తం పండు కనుగొనబడింది

Options :

Apple

యాపిల్

1. ✘

Custard apple

సీతాఫలం

2. ✔

3. ✖ Pineapple
పైనాపిల్

4. ✖ Wood apple
వుడ్ యాపిల్

Question Number : 120 Question Id : 9032011921 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Central National Herbarium of India is located in
జాతీయ కేంద్ర హెర్బేరియం ఆఫ్ ఇండియా ఎక్కడ ఉన్నది.

Options :

1. ✖ Hyderabad
హైదరాబాద్

2. ✖ Dehradun
డెహ్రాడూన్

3. ✔ Kolkata
కొల్కత్తా

4. ✖ Lucknow
లక్నో

Question Number : 121 Question Id : 9032011922 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

“Satin Wood” yielding plant belongs to the family

“సాటిన్ వుడ్” దిగుబడినిచ్చే మొక్క కుటుంబానికి చెందినది.

Options :

Santalaceae

1. ✘ శాంతాలేసి

Rutaceae

2. ✔ రుటాసి

Fabaceae

3. ✘ ఫాబేసి

Verbenaceae

4. ✘ వెర్బినేసి

Question Number : 122 Question Id : 9032011923 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The edible part in *Pithecalobium dulce* fruit is

పితకాలోబియం డల్సి ఫలంలో తినదగిన భాగం

Options :

Seed

1. ✘ విత్తనం

2. ✘ Endosperm
ఎండోస్పెర్మ్

3. ✔ Aril
ఎరిల్

4. ✘ Perisperm
పెరిస్పెర్మ్

Question Number : 123 Question Id : 9032011924 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The type of fruit commonly found in Cucurbitaceae is
కుకుర్బిటేసిలో సాధారణంగా కనిపించే పండు రకం

Options :

1. ✘ Pome
పోమ్

2. ✔ Pepo
పెపో

3. ✘ Berry
మృదు ఫలం

4. ✘ Drupe
టెంకెగల ఫలం

Question Number : 124 Question Id : 9032011925 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Microscopic seeds are found in
అతి సూక్ష్మమైన విత్తనాలు దీనిలో కనిపిస్తాయి

Options :

Poaceae

పోయేసి

1. ✘

Cyperaceae

సైపరేసి

2. ✘

Orchidaceae

ఆర్కిడేసి

3. ✔

Asteraceae

ఆస్ట్రేసి

4. ✘

Question Number : 125 Question Id : 9032011926 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In a tree ecosystem pyramid of number is
చెట్టు పర్యావరణ వ్యవస్థలో సంఖ్య యొక్క పిరమిడ్ ఉంటుంది.

Options :

1. ✘ Upright
నిటారుగా

2. ✔ Inverted
తిరగబడిన

3. ✘ Straight
నేరుగా

4. ✘ Sometimes up and sometimes inverted
కొన్నిసార్లు నిటారుగా మరియు కొన్నిసార్లు తిరగబడిన

Question Number : 126 Question Id : 9032011927 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The process of changing communities in a definite sequence is known as
కమ్యూనిటీలను ఒక నిర్దిష్ట క్రమంలో మార్పు చెందుటను ఈ విధంగా పిలుస్తారు.

Options :

1. ✘ Evolution
పరిణామం

2. ✘ Vanation
వ్యాపానం

3. ✘ Diversity
వైవిధ్యం

Succession

4. ✓ వారసత్వం

Question Number : 127 Question Id : 9032011928 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The pioneers of xerosere are
జీరోసీర్ యొక్క మార్గదర్శకులు

Options :

1. ✘ Mosses
నాచులు

2. ✘ Ephemeral herbs
అల్పకాలిక గుల్మాలు

3. ✓ Lichens
లైకన్లు

4. ✘ Shrubs
పొదలు

Question Number : 128 Question Id : 9032011929 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The direction of energy flow in an ecosystem is
పర్యావరణ వ్యవస్థలో శక్తి ప్రవాహం యొక్క దిశ

Options :

1. ✓ Unidirectional
ఏకదిశాత్మక

2. ✘ Bidirectional
ద్విదిశాత్మక

3. ✘ Cyclic
వలయకారం

4. ✘ Any way
ఏదైనా మార్గం

Question Number : 129 Question Id : 9032011930 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Seed dormancy can be relieved by using this phytohormone

ఈ పైటోహార్మోన్‌ని ఉపయోగించడం ద్వారా విత్తనాల నిద్రాస్థితి నుండి ఉపశమనం పొందవచ్చు

Options :

1. ✓ GA₃

2. ✘ Kn

3. ✘ IAA

ABA

4. ✘

Question Number : 130 Question Id : 9032011931 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The meristematic tissue, which is responsible for secondary growth is
ద్వితీయ వృద్ధికి కారణనమయ్యే విభాజ్యాకణావళి

Options :

1. ✘ Vascular cambium
ప్రసరణ విభాజ్యాకణావళి

2. ✘ Cork cambium
బెండు విభాజ్యాకణావళి

3. ✘ Phellum
బెండు కణజాలం

4. ✔ Vascular cambium & Cork cambium
ప్రసరణ విభాజ్యాకణావళి మరియు బెండు విభాజ్యాకణావళి

Question Number : 131 Question Id : 9032011932 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The living mechanical tissue is
జీవ యాంత్రిక కణజాలం

Options :

1. ✘ Xylem
దారువు
2. ✘ Sclerenchyma
ధృఢ కణజాలం
3. ✔ Collenchyma
స్థూలకోణ కణజాలం
4. ✘ Parenchyma
మృదు కణజాలం

Question Number : 132 Question Id : 9032011933 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

The latex of this plant is useful for the preparation of chewing gum
ఈ మొక్క యొక్క రబ్బరు పాలు చూయింగ్ గమ్ తయారీకి ఉపయోగపడుతుంది

Options :

1. ✘ Hevea brasiliensis
హెవియా బ్రీజిలెన్సిస్
2. ✘ Ficus elastica
ఫైకస్ ఎలాస్టికా

Cryptostegia glandiflora

క్రిప్టోస్టెజియా గ్లాండిఫ్లోరా

3. ✘

Manilkara zapota

మనీల్కర జపోటా

4. ✔

Question Number : 133 Question Id : 9032011934 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The study of the plant age confirmation by counting annual ring in called

వార్షిక ఉంగరాన్ని లెక్కించడం ద్వారా మొక్కల వయస్సు నిర్ధారణ అధ్యయనం

Options :

Dendrology

డెండ్రోలజీ

1. ✘

Dendrochronology

డెండ్రోక్రోనాలజీ

2. ✔

Forestry

ఫారెస్ట్రీ

3. ✘

Silviculture

సిల్వికల్చర్

4. ✘

Question Number : 134 Question Id : 9032011935 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Pollinia are commonly found in

పొలీనియా సాధారణంగా కనిపిస్తుంది

Options :

Orchidaceae

1. ✘ ఆర్కిడేసి

Asclepiadaceae

2. ✘ అస్కెపియాడేసి

Asteraceae

3. ✘ ఆస్టేరేసి

Orchidaceae & Asclepiadaceae

4. ✔ ఆర్కిడేసి మరియు అస్కెపియాడేసి

Question Number : 135 Question Id : 9032011936 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Sexual reproduction in plants was first discovered by

మొక్కలలో లైంగిక ప్రత్యుత్పత్తి కనుగొనబడింది.

Options :

P.Maheswari

1. ✘ పి.మహేశ్వరి

2. ✘

G.B. Annici
జి. బి. అమిసి

3. ✓ Rudolph camararius
రుడాల్ఫ్ కమరేరియస్

4. ✗ Hoffmeister
హోఫ్మీస్టర్

Question Number : 136 Question Id : 9032011937 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Amphitropous ovules are found in
అంఫిట్రోపస్ అండాలు కనిపిస్తాయి

Options :

1. ✗ Ramuculus
రానంక్యులస్

2. ✓ Butomus
బుటోమస్

3. ✗ Dolichos
దాలికస్

4. ✗ Opuntia
ఒపన్నియా

Question Number : 137 Question Id : 9032011938 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Who proposed NPC system for pollen classification?

పుప్పొడి వర్గీకరణ కొసం ఎన్.ఢి.సి వ్యవస్థను ఎవరు ప్రతిపాదించారు?

Options :

1. ✓ Erdtman
ఎర్డ్మాన్
2. ✘ Nemea Grew
నెమియా గ్రేవ్
3. ✘ williams
విలియమ్స్
4. ✘ Strassburger
స్ట్రాస్బర్గర్

Question Number : 138 Question Id : 9032011939 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Double fertilization means

డబుల్ ఫెర్టిలైజేషన్ అంటే

Options :

1. ✘

Fusion of male gamete with egg cell

గుడ్డు కణంతో మగ గామెట్ కలయిక

2. ✘ Fusion of male gamete with Secondary nucleus
సెకండరీ న్యూక్లియర్ తో మగ గామెట్ కలయిక

3. ✔ Fusion of 2nd male gamete with secondary nucleus
సెకండరీ న్యూక్లియర్ తో 2వ మగ గామెట్ కలయిక

4. ✘ Fusion of male gamete with synergids
సినర్జిడ్స్ తో మగ గామెట్ యొక్క కలయిక

Question Number : 139 Question Id : 9032011940 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The chemical composition of pollen tube is

పుప్పొడి గొట్టం యొక్క రసాయన కూర్పు

Options :

1. ✘ Spore pollenin
స్పోర్ పోలెనిన్

2. ✘ cellulose and suberin
సెల్యులోజ్ మరియు సుబెరిన్

3. ✘ Pectin-suberin
పెక్టిన్-సబెరిన్

Pecto-cellulose

పెక్టో-సెల్యులోజ్

4. ✓

Question Number : 140 Question Id : 9032011941 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Mitochondrion is treated as semiautonomous cell organelle because of the presence of

మైటోకాండరియన్ దీని కారణంగా స్వయంప్రతిపత్తి కలిగిన కణాంగము గా పరిగణించబడుతుంది.

Options :

Respiratory enzymes

శ్వాసకోశ ఎంజైమ్లు

1. ✘

DNA

డి.ఎన్.ఎ

2. ✓

Cristae

క్రిస్టే

3. ✘

70s ribosome

70s రైబోజోమ్

4. ✘

Question Number : 141 Question Id : 9032011942 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Plasmids are generally found in
ప్లాస్మిడ్లు సాధారణంగా కనిపిస్తాయి.

Options :

1. ✓ Bacterial cells
బాక్టీరియల్ కణాలు

2. ✘ viruses
వైరస్లు

3. ✘ yeast cells
ఈస్ట్ కణాలు

4. ✘ protozoans
ప్రోటోజోవాన్లు

Question Number : 142 Question Id : 9032011943 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The number of chromosomes is being maintained constant because of
క్రోమోజోమ్ల సంఖ్య స్థిరంగా నిర్వహించబడుతోంది

Options :

1. ✘ Mitosis
మైటోసిస్

2. ✘ Amitosis
అమిటోసిస్

Meiosis I
3. ✓ మియోసిస్ I

Meiosis II
4. ✗ మియోసిస్ II

Question Number : 143 Question Id : 9032011944 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Polytene chromosomes are found in
పాలిటిన్ క్రోమోజోములు వేటిలో కనుగొనబడ్డాయి

Options :

1. ✓ Salivary glands insects
లాలాజల గ్రంధులు కీటకాలు

2. ✗ Salamanders Salivary glands
సాలమండర్లు లాలాజల గ్రంధులు

3. ✗ Human beings salivary glands
మానవుల లాలాల గ్రంధులు

4. ✗ Monkeys salivary glands
కోతుల లాలాల గ్రంధులు

Question Number : 144 Question Id : 9032011945 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Semi conservative replication of DNA was experimentally proved by
డి.యన్.ఎ యొక్క సెమీ కన్సర్వేటివ్ రెప్లికేషన్ ప్రయోగతమకంగా నిరూపించబడింది

Options :

1. ✘
Hershey and Chase
హెర్షే మరియు చేస్

2. ✘
Watson and Crick
వాట్సన్ మరియు క్రిక్

3. ✔
Meselson and Stahl
మెసెల్సన్ మరియు స్టాల్

4. ✘
Hugodevriese and Correl Correns
హుగోడెవరీస్ మరియు కోరిల్ కోర్రెన్స్

Question Number : 145 Question Id : 9032011946 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Plasma membrane is semipermeable because of
ప్లాస్మా మెంబ్రేన్ సెమీపర్మీబుల్ ఎందుకంటే

Options :

1. ✔
Lipid layer
లిపిడ్ పొర

2. ✘

Protein layer
ప్రోటీన్ పొర

3. ✘
Lignin
లిగ్నిన్

4. ✘
Cellulose layer
సెల్యులోజ్ పొర

Question Number : 146 Question Id : 9032011947 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Replication of DNA takes place during this sub phase of interphase
డి.యన్.ఎ యొక్క ప్రతిరూపం ఇంటర్ ఫేస్ యొక్క ఉప దశలో సమతలాన్ని తీసుకుంటుంది

Options :

1. ✘
G₁ Phase
జి 1 ఫేజ్

2. ✘
G₂ Phase
జి 2 ఫేజ్

3. ✔
S phase
ఎస్ ఫేజ్

4. ✘
Anaphase
అనాఫేస్

Question Number : 147 Question Id : 9032011948 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The following plant shows incomplete dominance with phenotypic ratio of F2 plants
కింది మొక్క F2 మొక్కల సమలక్షణ నిష్పత్తిలో అసంపూర్ణ అధిపత్యాన్ని చూపుతుంది

Options :

Pisum sativum

పైసమ్ సటైవమ్

1. ✘

Oenothera lamarkana

ఈనోథెర లామర్కియాన

2. ✘

Mirabilis jalapa

మిరాబిలిస్ జలప

3. ✔

Arabidopsis thaliana

అరబిడోప్సిస్ థాలియాన

4. ✘

Question Number : 148 Question Id : 9032011949 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

AC/Ds system in maize was discovered by
మొక్క జోన్నలో AC/Ds వ్యవస్థను కనుగొన్నారు

Options :

1. ✓
Mc Clintok
Mc క్లింటాక్

2. ✘
TH Morghan
TH మోర్గాన్

3. ✘
HG Khorana
HG ఖోరానా

4. ✘
Ochava
ఓచావా

Question Number : 149 Question Id : 9032011950 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Epistasis means
ఎపిస్టాసిస్ అంటే

Options :

1. ✘
One gene acts on another gene
ఒక జన్యువు మరొక జన్యువు పై పనిచేస్తుంది

2. ✓
One gene masks another gene
ఒక జన్యువు మరొక జన్యువును ముసుగు చేస్తుంది

3. ✘
Both the genes are suppressed
రెండు జన్యువులు అణచివేయబడతాయి

Both the genes become dominant
4. ✖ రెండు జన్యువులు అధిపత్యం చెందుతాయి

Question Number : 150 Question Id : 9032011951 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Law of dominance and recessiveness is the results of
అధిపత్యం మరియు తిరోగమనం యొక్క చట్టం ఫలితాలు

Options :

1. ✖ Back cross
బ్యాక్ క్రాస్

2. ✖ in complete dominance
పూర్తి అధిపత్యంలో

3. ✖ Dihybrid cross
డైహైబ్రిడ్ క్రాస్

4. ✔ Monohybrid cross
మోనోహైబ్రిడ్ క్రాస్

Question Number : 151 Question Id : 9032011952 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following experiment is useful to prove as Phloem is meant for translocation of Solutes.

ఫ్లోయమ్ ట్రాన్స్‌లోకేషన్ సొల్యూట్స్ కొసం ఉద్దేశించినది అని నిరూపించడానికి కింది వాటిలో ఏది ఉపయోగపడుతుంది

Options :

1. ✘ Crescograph
క్రోస్కోగ్రాఫ్
2. ✔ Ringing experiment
రింగింగ్ ప్రయోగం
3. ✘ Munch Experiment
ముంచ్ ప్రయోగం
4. ✘ Hill reaction
హిల్ రియాక్షన్

Question Number : 152 Question Id : 9032011953 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If one chromosome pair is missing in an organism it is called

ఏ ఒకటి క్రోమోజోమ్ జంటగా పిలువబడే సంస్థలో లేదు

Options :

1. ✘ Monosomic
మోనోసోమిక్
2. ✘ Trisomic
ట్రీసోమిక్

Nullisomic
నల్లిసోమిక్

3. ✓

Euploidly
యూప్లాయిడ్లీ

4. ✘

Question Number : 153 Question Id : 9032011954 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

This element deficiency causes "little leaf disease" in plants.
ఈ మూలకం లోపం మొక్కలలో 'చిన్న ఆకు వ్యాధి'ని కలిగిస్తుంది.

Options :

1. ✓ Zn

2. ✘ B

3. ✘ K

4. ✘ Ca

Question Number : 154 Question Id : 9032011955 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

“Triple response” hormone in
“ట్రీపుల్ రెస్పాన్స్” హార్మోన్ లో

Options :

1. ✘ Auxin
ఆక్సిన్
2. ✘ Gibberellin
గిబ్బరెల్లిన్
3. ✘ Cytokinin
సైటోకైనిన్
4. ✔ Ethylene
ఇథిలిన్

Question Number : 155 Question Id : 9032011956 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Nitrogenase enzyme is found in
నైట్రోజినేజ్ ఎంజైమ్ దీనిలో కనుగొనబడును.

Options :

1. ✘ Nostoc
నోస్టాక్
2. ✘

Rhizobium
రైజోబియం

3. ✘ Azotobacter
అజోటోబాక్టర్

4. ✔ All
అన్నియు

Question Number : 156 Question Id : 9032011957 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In the following plant C_3 cycle takes place in mesophyll cell and C_4 pathway in
Bundle sheath chloroplast

కింది మొక్కలలో చక్రం మెసోఫిల్ సెల్ మరియు మార్గంలో జరుగుతుంది బండ్లిల్ కోశం క్లోరోప్లాస్ట్

Options :

1. ✘ Rice
వరి

2. ✔ Maize
మొక్కజొన్న

3. ✘ Euphorbia
యూఫోర్బియా

4. ✘ Ananus
అనానస్

Question Number : 157 Question Id : 9032011958 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In aerobic respiration oxidation of one glucose molecule produces
ఏరోబిక్ శ్వాసక్రియలో ఒక గ్లూకోజ్ అణువు యొక్క ఆక్సీకరణ ఉత్పత్తి అవుతుంది

Options :

1. ✘ 8 ATPs net
8 ఎటిపిల నికర
2. ✔ 36 ATP net
36 ఎటిపిల నికర
3. ✘ 40 ATPs net
40 ఎటిపిల నికర
4. ✘ 30 ATPs net
30 ఎటిపిల నికర

Question Number : 158 Question Id : 9032011959 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The enzyme, which is possessing highest turnover number
అత్యధిక టర్నోవర్ సంఖ్యను కలిగి ఉన్న ఎంజైమ్

Options :

1. ✔

Catalase

కెటాలేజ్

Pepsin

పెప్సిన్

2. ✘

Kinase

కినేస్

3. ✘

Cromeraoe

క్రోమోరాయో

4. ✘

Question Number : 159 Question Id : 9032011960 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Eukaryote with anaerobic respiration is

వాయురహిత శ్వాసక్రియతో కూడిన యూకారియోట్

Options :

E.Coli

ఇ.కోలి

1. ✘

Saccharomyces

శాఖరోమైసిస్

2. ✔

Anabaena

అనాబీనా

3. ✘

4. ✘

Arabidopsis
ఆరబిడోప్సిస్

Question Number : 160 Question Id : 9032011961 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

First discovered enzyme is
మొదట కనుగొనబడిన ఎంజైమ్

Options :

1. ✘
Diastase
డయా స్టేజ్

2. ✘
Dehydrogenase
డీహైడ్రోజినేస్

3. ✔
Zymase
జైమేజ్

4. ✘
Urease
యూరియేజ్

ZOOLOGY

Section Id : 90320129

Section Number 3

:

Section type : Online

**Mandatory or
Optional :** Optional

**Number of
Questions :** 60

**Number of
Questions to be
attempted :** 60

Section Marks : 60

**Enable Mark as
Answered Mark
for Review and
Clear Response** Yes

:

**Maximum
Instruction** 0

Time :

**Sub-Section
Number :** 1

Sub-Section Id : 90320131

**Question
Shuffling** Yes

Allowed :

Question Number : 161 Question Id : 9032011962 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The hormone Cholecystikin is secreted by _____.

కోలెసిస్టాకినిన్ అనే హార్మోన్ _____ ద్వారా ప్రవిస్తుంది

Options :

1. ✓ Small intestine
చిన్నప్రేగు

2. ✘ Duodenum
డ్యూడెనమ్

3. ✘ Pancreas
ప్యాంక్రియాస్

4. ✘ Cardiac Stomach
కార్డియాక్ కడుపు

Question Number : 162 Question Id : 9032011963 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Find the INCORRECT pair from the following?

క్రింది వాటి నుండి సరికాని జతని కనుగొనండి?

Options :

1. ✘ Gastric glands – Oxyntic glands
గ్యాస్ట్రిక్ గ్రంధులు - ఆక్సింటిక్ గ్రంధులు

2. ✘ Peptic glands – Amylase
పెప్టిక్ గ్రంధులు - అమైలేస్

3. ✓ Oxyntic cells – Musin
ఆక్సింటిక్ కణాలు - ముసిన్

Parietal glands – HCl

పారియట్ గ్రంథులు - HCl

4. ✖

Question Number : 163 Question Id : 9032011964 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Find out the correct statement from the following?

క్రింది వాటి నుండి సరైన ప్రకటనను కనుగొనండి

Options :

Maltase is present in the saliva of mammals

క్షీరదాల లాలాజలంలో మాల్టేస్ ఉంటుంది

1. ✔

Erypsin is present in the saliva of mammals

క్షీరదాల లాలాజలంలో ఎరిప్సిన్ ఉంటుంది

2. ✖

Ptylin is present in the small intestine of mammals

క్షీరదాల చిన్న ప్రేగులలో పైలిన్ ఉంటుంది

3. ✖

Maltase is present in the small intestine of mammals

క్షీరదాల చిన్న ప్రేగులలో మాల్టేస్ ఉంటుంది

4. ✖

Question Number : 164 Question Id : 9032011965 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The cardiac cycle in human beings lasts for _____ seconds.

మానవులలో గుండె చక్రం సెకన్ల పాటు ఉంటుంది

Options :

0.2

1. ✘

0.4

2. ✘

0.6

3. ✘

0.8

4. ✔

Question Number : 165 Question Id : 9032011966 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Find the INCORRECT statement

సరికాని స్టేట్‌మెంట్‌ను కనుగొనండి

Options :

Contraction of heart chambers is known as systole

గుండె గదుల సంకోచాన్ని సిస్టోల్ అంటారు

1. ✘

Complete systole diastole of the heart makes one heart beat

గుండె యొక్క పూర్తి సిస్టోల్ డయాస్టోల్ ఒక హృదయ స్పందనను చేస్తుంది

2. ✘

3. ✘

Sino auricular node is represented as pace maker

సిన్ ఆరిక్యులర్ నోడ్ పేస్ మేకర్ గా సూచించబడుతుంది

Chordae tendinae are present at the base of the system aorta

చోర్డేటెండినే వ్యవస్థ బృహద్దమని యొక్క బేస్ వద్ద ఉన్నాయి

4. ✓

Question Number : 166 Question Id : 9032011967 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is a ureotelic animal?

క్రింది వాటిలో యూరోటెలిక్ జంతువు ఏది?

Options :

Frog

కప్ప

1. ✓

Tadpole larva

టాడ్ పోల్ లార్వా

2. ✘

Calotes

కలోట్స్

3. ✘

Pigeon

పావురం

4. ✘

Question Number : 167 Question Id : 9032011968 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The condition in which there is an increase in the rate of urine secretion is called as _____

మూత్ర విసర్జన రేటు పెరిగినప్పుడు, పరిస్థితిని _____ అంటారు

Options :

Isotonic
ఐసోటోనిక్

1. ✘

Diuresis
డైయూరిసిస్

2. ✔

Hypekalemia
హైపెకలేమియా

3. ✘

Hyponatremia
హైపోనాట్రేమియా

4. ✘

Question Number : 168 Question Id : 9032011969 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Choose the INCORRECT one from the following options.

క్రింది ఎంపికల నుండి సరికానిదాన్ని ఎంచుకోండి

Options :

1. ✘

Skeletal muscles – Striated muscles

అస్థిపంజర కండరాలు – స్ట్రైటెడ్ కండరాలు

Smooth muscles– Unstriated muscles

స్మూత్ కండరాలు– అన్స్ట్రైటెడ్ కండరాలు

2. ✘

Visceral muscles – Striated muscles

విసెరల్ కండరాలు – స్ట్రైటెడ్ కండరాలు

3. ✔

Cardiac muscles – Striated muscles

కార్డియాక్ కండరాలు – స్ట్రైటెడ్ కండరాలు

4. ✘

Question Number : 169 Question Id : 9032011970 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The striated muscle fibers are separated by a thin layer called, the _____.

స్ట్రైటెడ్ కండర ఫైబర్లు _____ అనే పలుచని పొరతో వేరు చేయబడతాయి.

Options :

Endomysium

ఎండోమిసియం

1. ✔

Fasciculis

ఫాసిక్యులీ

2. ✘

3. ✘

Epimysium
ఎపిమిసియం

Perimysium
పెరిమిసియం

4. ✘

Question Number : 170 Question Id : 9032011971 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The period of time from fertilization to parturition is called _____.

ఫలదీకరణ నుండి ప్రసవం వరకు ఉన్న కాలాన్ని _____ అంటారు.

Options :

Proliferative phase
విస్తరణ దశ

1. ✘

Luteal phase
లూటియల్ దశ

2. ✘

Menstruation phase
ఋతుస్రావం దశ

3. ✘

Gestation phase
గర్భధారణ దశ

4. ✔

Question Number : 171 Question Id : 9032011972 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which hormone causes contraction of gall bladder to release bile juice into the duodenum through the hepato-pancreatic duct?

హెపాటో-ప్యాంక్రియాటిక్ డక్ట్ ద్వారా ద్యూడెనమ్‌లోకి పిత్త రసాన్ని విడుదల చేయడానికి గాల్ బ్లాడర్

యొక్క సంకోచానికి కారణమయ్యే హార్మోన్ ఏది?

Options :

Pancreozymin

ప్యాంక్రోజిమిన్

1. ✘

Secretin

సీక్రెటిన్

2. ✘

Cholecystikin

కోలెసిస్టోకినిన్

3. ✔

Enterogastrone

ఎంట్రోగాస్ట్రోన్

4. ✘

Question Number : 172 Question Id : 9032011973 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The events of the citric acid cycle, electron transport chain, and oxidative phosphorylation take place in the _____ organelle of the cell.

సిట్రిక్ యాసిడ్ చక్రం, ఎలక్ట్రాన్ రవాణా గొలుసు మరియు ఆక్సికరణ ఫాస్ఫోరైలేషన్ యొక్క సంఘటనలు

సెల్ యొక్క _____ లో జరుగుతాయి

Options :

Chloroplast

క్లోరోప్లాస్ట్

1. ✘

Mitochondria

మైటోకాండ్రీయా

2. ✔

Golgi complex

గొల్జి కాంప్లెక్స్

3. ✘

Ribosomes

రైబోజోములు

4. ✘

Question Number : 173 Question Id : 9032011974 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

----- immunoglobulin prevents the adherence of bacteria and virus to the epithelial cell surface?

_____ ఇమ్యునోగ్లోబులిన్ ఎపిథీలియల్ ఉపరితలంపై బ్యాక్టీరియా మరియు వైరస్ కట్టుబడి

ఉండకుండా నిరోధిస్తుంది?

Options :

IgA

1. ✔

IgE

2. ✘

IgD

3. ✘

IgG

4. ✘

Question Number : 174 Question Id : 9032011975 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Interferons act as -----

ఇంటర్ఫెరాన్లు _____

Options :

Antibacterial agents

యాంటీ బాక్టీరియల్ ఏజెంట్లు

1. ✘

Antifungal agents

యాంటీ ఫంగల్ ఏజెంట్లు

2. ✘

Antiviral agents

యాంటీవైరల్ ఏజెంట్లు

3. ✔

Antifungal and antiviral agents

యాంటీ ఫంగల్ మరియు యాంటీవైరల్ ఏజెంట్లు

4. ✖

Question Number : 175 Question Id : 9032011976 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following help to boost immune response, thus helping the vaccines to work better?

వ్యాక్సిన్లు మెరుగ్గా పనిచేయడంలో రోగనిరోధక ప్రతిస్పందనను పెంచడానికి కింది వాటిలో ఏది సహాయపడుతుంది?

Options :

Preservatives

సంరక్షణకారులను

1. ✖

Antigens

యాంటిజెన్లు

2. ✖

Stabilizers

స్టేబిలైజర్లు

3. ✖

Adjuvants

సహాయకులు

4. ✔

Question Number : 176 Question Id : 9032011977 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which cells are the major components of Cell Mediated Immunity?

కణ-మధ్యవర్తిత్వ రోగనిరోధక శక్తి యొక్క ప్రధాన భాగాలు ఏ కణాలు?

Options :

TS cells

TS కణాలు

1. ✘

TC cells

TC కణాలు

2. ✔

TD cells

TD కణాలు

3. ✘

TH cells

TH కణాలు

4. ✘

Question Number : 177 Question Id : 9032011978 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following thymic hormone induce deoxynucleotidyl transferase?

క్రింది వాటిలో ఏ థైమిక్ హార్మోన్ డియోక్సి న్యూక్లియోటిడైల్ ట్రాన్స్ ఫేరేస్‌ను ప్రేరేపిస్తుంది?

Options :

1. ✘

Thymulin
థైములిన్

Thymostimulin
థైమోస్టిములిన్

2. ✘

Thymosin
థైమోసిన్

3. ✔

Thymopoieten
థైమోపోయిటెన్

4. ✘

Question Number : 178 Question Id : 9032011979 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which immunoglobulin exists as a pentamer of the basic four chain subunits held together by disulphide bonds?

డైసల్ఫైడ్ బంధాల ద్వారా కలిపి ఉంచబడిన ప్రాథమిక నాలుగు చైన్ సబ్ యూనిట్ల పెంటామర్గా ఏ ఇమ్యునోగ్లోబులిన్ ఉంది?

Options :

1. ✔ Immunoglobulin M
ఇమ్యునోగ్లోబులిన్ M

2. ✘ Immunoglobulin D
ఇమ్యునోగ్లోబులిన్ D

Immunoglobulin E

ఇమ్యునోగ్లోబులిన్ E

3. ✘

Immunoglobulin G

ఇమ్యునోగ్లోబులిన్ G

4. ✘

Question Number : 179 Question Id : 9032011980 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Auto-immune hemolytic anemia is an example for the _____

ఆటో-ఇమ్యూన్ హెమోలిటిక్ అనీమియా _____ కి ఒక ఉదాహరణ

Options :

Immune – complex mediated hypersensitivity

రోగనిరోధక-సంక్లిష్ట-మధ్యవర్తిత్వ తీవ్రసున్నితత్వం

1. ✘

IgE - mediated hypersensitivity

IgE - మధ్యవర్తిత్వ హైపర్సెన్సిటివిటీ

2. ✘

Antibody -mediated cytotoxic hypersensitivity

యాంటీబాడీ-మెడియేటెడ్ సైటోటాక్సిక్ హైపర్సెన్సిటివిటీ

3. ✔

Cell-mediated hypersensitivity

సెల్-మెడియేటెడ్ హైపర్సెన్సిటివిటీ

4. ✘

Question Number : 180 Question Id : 9032011981 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following methods is used to diagnose fetal disorders and abnormalities in the chromosomes and genes?

పిండం రుగ్మతలు మరియు క్రోమోజోమ్లు మరియు జన్యువులలో అసాధారణతలను నిర్ధారించడానికి
కింది వాటిలో ఏది ఉపయోగించబడుతుంది?

Options :

1. ✘ Genetic engineering
జన్యు ఇంజనీరింగ్

2. ✔ Genetic counselling
జెనెటిక్ కౌన్సెలింగ్

3. ✘ Gene therapy
జన్యు చికిత్స

4. ✘ Drug screening and Development
డ్రగ్ స్క్రీనింగ్ మరియు అభివృద్ధి

Question Number : 181 Question Id : 9032011982 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which cells can differentiate into all or any type of cells required in the body?

ఏ కణాలు శరీరంలో అవసరమైన అన్ని లేదా ఏ రకమైన కణాలను వేరు చేయగలవు?

Options :

Unipotent

ఏకశక్తిలేని

1. ✘

Multipotent

బహుశక్తి

2. ✘

Pluripotent

ప్లూరిపోటెంట్

3. ✘

Totipotent

టోటిపోటెంట్

4. ✔

Question Number : 182 Question Id : 9032011983 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Who proved that Sickel Cell Anaemia is a molecular disease caused by mutation?

సికెల్ సెల్ అనీమియా అనేది మ్యుటేషన్ వల్ల వచ్చే మాలిక్యులర్ వ్యాధి అని ఎవరు నిరూపించారు?

Options :

Pauling

పాలింగ్

1. ✔

Karl Ereky
కార్లెరెకీ

2. ✖

J.Lister
జె.లిస్టర్

3. ✖

Waldeyer
వాల్డేయర్

4. ✖

Question Number : 183 Question Id : 9032011984 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which animal is the first successful mammal cloned from an adult cell?

వయోజన కణం నుండి క్లోన్ చేయబడిన మొదటి విజయవంతమైన క్షీరదం ఏది?

Options :

Cow
ఆవు

1. ✖

Dog
కుక్క

2. ✖

Sheep
గొర్రెలు

3. ✔

4. ✖

Question Number : 184 Question Id : 9032011985 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the Source of the enzyme 'Bam HI'?
'బామ్ HI' ఎంజైమ్ యొక్క మూలం ఏమిటి?

Options :

1. ✘
Bacillus caldolticus 1st enzyme
బాసిల్లస్ కాలిల్డికస్ 1వ ఎంజైమ్

2. ✘
Bacillus globigii, 2nd enzyme
బాసిల్లస్ గ్లోబిగి, 2వ ఎంజైమ్

3. ✔
Bacillus amyloliquifsciens strain H, 1st enzyme
బాసిల్లస్ అమిలోలిక్విఫ్సెన్స్ స్ట్రెయిన్ H, 1వ ఎంజైమ్

4. ✘
Bacillus aureus strain 3A, 1st enzyme
బాసిల్లస్ ఆరియస్ స్ట్రెయిన్ 3A, 1వ ఎంజైమ్

Question Number : 185 Question Id : 9032011986 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Solenocytes are used in -----

సోలెనోసైట్లు ఎక్కడ ఉపయోగించబడతాయి?

Options :

In Respiration

శ్వాసక్రియలో

1. ✘

In Circulation

సర్క్యులేషన్లో

2. ✘

In Digestion

జీర్ణక్రియలో

3. ✘

In Excretion

విసర్జనలో

4. ✔

Question Number : 186 Question Id : 9032011987 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Find out the odd one.

భిన్నమైన దానిని కనుగొనండి

Options :

1. ✘

Tapeworm - Platyhelminthes

టేప్ వార్మ్ - ప్లాటిహెల్మింథెస్

Aurelia – Coelenterata

ఆరేలియా - కోలెంటెరాటా

2. ✘

Sycon – Mollusca

సైకాన్ - మొలస్కా

3. ✔

Leucosolenia – Porifera

ల్యూకోసోలెనియా - పోరిఫెరా

4. ✘

Question Number : 187 Question Id : 9032011988 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Who coined the word 'Protozoa'?

ప్రోటోజోవా అనే పదాన్ని ఎవరు ఉపయోగించారు?

Options :

Antony Von Leuwenhoek

ఆంటోనీ వాన్ ల్యూవెన్ హుక్

1. ✘

Goldfuss

గోల్డ్ ఫస్

2. ✔

Van Siebold

వాన్ సీబోల్డ్

3. ✘

Hyman
హైమన్

4. ✖

Question Number : 188 Question Id : 9032011989 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Elphidium is commonly known as _____.

ఎల్ఫిడియంను సాధారణంగా _____ అని పిలుస్తారు

Options :

Pore bearer

పోర్ బేరర్

1. ✔

Barber pole worm

బార్బర్ పోల్ వురుగు

2. ✖

Roundworm

గుండ్రని వురుగు

3. ✖

Jellyfish

జెల్లీఫిష్

4. ✖

Question Number : 189 Question Id : 9032011990 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Ephyra belongs to which of the following phyla?

ఎఫిరా కింది వాటిలో దేనికి చెందినది?

Options :

Echinodermata

ఎచినోడెర్మాటా

1. ✘

Platyhelminthes

ప్లాటిహెల్మింథెస్

2. ✘

Mollusca

మొలస్కా

3. ✘

Cnidaria

సినిడారియా

4. ✔

Question Number : 190 Question Id : 9032011991 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the common name of *Alcyonium*?

ఆల్సియోనియం యొక్క సాధారణ పేరు ఏమిటి?

Options :

Dead man's finger

చనిపోయిన మనిషి వేలు

1. ✔

Brain coral
మెదడు పగడపు

2. ✘

Sea pansy
సముద్రపు పాన్సీ

3. ✘

Sea pen
సముద్రపు పెన్

4. ✘

Question Number : 191 Question Id : 9032011992 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following species has cercaria larva in its lifecycle?

కింది వాటిలో సెర్కారియా లార్వా జీవితచక్రంలో ఏ జాతికి ఉంది?

Options :

Schistosomamansonii

స్కిస్టోసోమా మాన్సోని

1. ✔

Taeniasolium

టేనియా సోలియం

2. ✘

Echinococcusgranulosus

ఎచినోకాకస్ గ్రాన్యులోసస్

3. ✘

4. ✘

Enterobiusvermicularis
ఎంటెరోబియస్ వెర్మిక్యులారిస్

Question Number : 192 Question Id : 9032011993 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the common name of Dracunculus medinensis?
డ్రాకున్యులస్ మెడినేన్సిస్ యొక్క సాధారణ పేరు ఏమిటి?

Options :

1. ✓
Guinea worm
గినియా పురుగు

2. ✘
bladder worm
మూత్రాశయపు పురుగు

3. ✘
dwarf tapeworm
మరుగుజ్జు టేప్ పురుగు

4. ✘
dog tapeworm
కుక్క టేప్ పురుగు

Question Number : 193 Question Id : 9032011994 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Rhabditiform larva is found in the life cycle of _____.

రాబ్డిటిఫార్మ్ లార్వా _____ జీవిత చక్రంలో కనిపిస్తుంది

Options :

Trematodes

ట్రెమాటోడ్స్

1. ✘

Cestodes

సెస్టోడ్స్

2. ✘

Nematodes

నెమటోడ్లు

3. ✔

Cnidarians

సినిడారియన్లు

4. ✘

Question Number : 194 Question Id : 9032011995 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How many nephridia are present in Indian cattle leeches?

భారతీయ పశువుల జలగల్లో ఎన్ని నెఫ్రిడియాలు ఉన్నాయి?

Options :

11 pairs

11 జతల

1. ✘

13 pairs

13 జతల

2. ✘

3. ✘ 15 pairs
15 జతల

4. ✔ 17 pairs
17 జతల

Question Number : 195 Question Id : 9032011996 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Silverfish belong to which of the following taxonomic order?
సిల్వర్ ఫిష్ క్రింది వర్గీకరణ క్రమానికి చెందినది ఏది?

Options :

1. ✔ Insecta
కీటకాలు

2. ✘ Arachnida
అరాక్నిడా

3. ✘ Myriapoda
మిరియాపోడా

4. ✘ Crustacean
క్రస్టేషియన్

Question Number : 196 Question Id : 9032011997 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In Palaemon, which cephalic appendage has statocyst?

పాలెమోన్లో, ఏ సెఫాలిక్ అనుబంధంలో స్టాటోసిస్ట్ ఉంది?

Options :

1. ✓
Antennule
యాంటెన్యుల్

2. ✗
Antenna
యాంటెన్నా

3. ✗
Maxillula
మాక్సిల్లూలా

4. ✗
Maxilla
మాక్సిల్లా

Question Number : 197 Question Id : 9032011998 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the first larval stage in the phylum Echinodermata?

ఎచినోడెర్మాటా అనే ఫైలమ్లో మొదటి లార్వా దశ ఏది?

Options :

1. ✓
Dipleurula larva
డిప్లూరులా లార్వా

Bipinnaria larva

బిపిన్నారియా లార్వా

2. ✘

Branchiolaria larva

బ్రాంచియోలారియా లార్వా

3. ✘

Metacercaria larva

మెటాసెర్కేరియా లార్వా

4. ✘

Question Number : 198 Question Id : 9032011999 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In hemichordates buccal diverticulum extends into the _____.

హెమిచార్డేట్స్‌లో బుక్కల్ డైవర్టిక్యులం _____ వరకు విస్తరించి ఉంటుంది

Options :

Oesophagus

అన్నవాహిక

1. ✘

Trachea

శ్వాసనాళం

2. ✘

Proboscis

ప్రోబోస్సిస్

3. ✔

Trunk
ట్రంక్

4. ✖

Question Number : 199 Question Id : 9032012000 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which type of symmetry is exhibited by the phylum Hemichordata?
ఫైలమ్ హెమికోర్డేటా ద్వారా ఏ రకమైన సమరూపత ప్రదర్శించబడుతుంది?

Options :

1. ✓ Bilateral symmetry
ద్వైపాక్షిక సమరూపత

2. ✖ Octalateral symmetry
ఆక్టాలేటరల్ సమరూపత

3. ✖ Biradial symmetry
బైరేడియల్ సమరూపత

4. ✖ Radial symmetry
రేడియల్ సమరూపత

Question Number : 200 Question Id : 9032012001 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the type of coelom in Cephalochordata?

సెఫాలోచోర్డేటాలో కోయిలోమ్ రకం ఏమిటి?

Options :

Enterocoelomate

ఎంట్రోకోలోమేట్

1. ✓

Pseudocoelomate

సూడోకోలోమేట్

2. ✘

Acoelomate

అకోలోమేట్

3. ✘

Schizocoelomate

స్కిజోకోలోమేట్

4. ✘

Question Number : 201 Question Id : 9032012002 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Find out the INCORRECT statement?

సరికాని ప్రకటనను కనుగొనండి?

Options :

Cyclostomes are jawless vertebrates

సైక్లోస్టోమ్లు దవడలు లేని సకశేరుకాలు

1. ✘

Placoderms are jawed vertebrates

ప్లాకోడర్మ్లు దవడ సకశేరుకాలు

2. ✘

Reptiles are warm-blooded animals

సరీసృపాలు వెచ్చని-బ్లడెడ్ జంతువులు

3. ✓

Aves are warm-blooded animals

ఏవ్స్ వెచ్చని -బ్లడెడ్ జంతువులు

4. ✘

Question Number : 202 Question Id : 9032012003 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following fish exhibits brachial respiration as an aquatic adaptation?

కింది వాటిలో ఏ చేప జలసంబంధమైన అనుసరణగా బ్రాచియల్ శ్వాసక్రియను ప్రదర్శిస్తుంది?

Options :

Scoliodon

స్కోలియోడాన్

1. ✓

Protopterus

ప్రోటోప్టెరస్

2. ✘

Osteolepis

ఆస్టియోలెపిస్

3. ✘

Synbranchus

సింబ్రాంచస్

4. ✘

Question Number : 203 Question Id : 9032012004 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which fish exhibits gephyrocercal tail?

ఏ చేప జిఫిరోసెర్కల్ తోకను ప్రదర్శిస్తుంది?

Options :

1. ✘ Acipenser
అసిపెన్సర్

2. ✔ Fieraspis
ఫియరాస్పిన్

3. ✘ Polyodon
పాలియోడాన్

4. ✘ Chimaera
కైమేరా

Question Number : 204 Question Id : 9032012005 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In frogs which of the following nerves arise from the crura cerebri of the
midbrain?

కప్పలో, మధ్య మెదడులోని క్రూరా సెరిబ్రీ నుండి క్రింది నరాలలో ఏది ఉత్పన్నమవుతుంది?

Options :

Oculomotor nerves

ఓక్యులోమోటర్ నరాలు

1. ✓

Optic nerves

ఆప్టిక్ నరాలు

2. ✘

Olfactory nerves

ఘ్రాణ నాడులు

3. ✘

Trochlear nerves

ట్రోక్లియర్ నరాలు

4. ✘

Question Number : 205 Question Id : 9032012006 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The only snake that builds nest for laying eggs is the _____.

గుడ్లు పెట్టడానికి గూడును నిర్మించే ఏకైక పాము _____

Options :

Ophiophagushanna

ఓఫియోఫాగస్ హన్నా

1. ✓

Bungaruseruleus

బంగారస్ ఓరులియస్

2. ✘

3. ✘

Viperarusseli

వైపెరా రస్సేలి

Bungarusfasciatus

బంగారస్ ఫాసియటస్

4. ✘

Question Number : 206 Question Id : 9032012007 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Who described birds as "glorified reptiles"?

పక్షులను గ్లోరిఫైడ్ సరీసృపాలుగా ఎవరు అభివర్ణించారు?

Options :

J.Z.Young

1. ✘ J.Z.యంగ్

T.H.Huxley

2. ✔ హక్సీ

Salim Ali

సలీం అలీ

3. ✘

Konard Lopez

కోనార్డ్ లోపెజ్

4. ✘

Question Number : 207 Question Id : 9032012008 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The largest mammal is the _____.
అతిపెద్ద క్షీరదం _____

Options :

1. ✓ *Balaenoptera musculus*
బాలేనోప్టెరా మస్కులస్

2. ✘ *Craseonycteris thonglongyai*
క్రేసోనిక్టెరిస్ థాంగ్లంగ్ యై

3. ✘ *Loxodonta africana*
లోక్సోడోంటా ఆఫ్రికానా

4. ✘ *Juramania sinensis*
జురామానియా సిన్సెన్సిస్

Question Number : 208 Question Id : 9032012009 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the dental formula of elephant?
ఏనుగు యొక్క దంత సూత్రం ఏమిటి?

Options :

1. ✓ 1,0,0,3

2. ✖ 0,1,1,3

3. ✖ 3,0,1,1

4. ✖ 0,1,1,3

Question Number : 209 Question Id : 9032012010 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

“The speed or rate of cleavage in any region of egg is inversely proportional to the amount of yolk it contains”. This law is called the _____.

గుడ్డులోని ఏదైనా ప్రాంతంలో చీలిక యొక్క వేగం లేదా రేటు అది కలిగి ఉన్న వచ్చసొన మొత్తానికి విలోమానుపాతంలో ఉంటుంది. ఈ చట్టాన్ని _____ అని పిలుస్తారు

Options :

Hertwig's law
హెర్టిగ్ చట్టం

1. ✖

Pfulger's law
పుల్గర్ చట్టం

2. ✖

Sachs's law
సాక్స్ చట్టం

3. ✖

Balfour's law

బాల్ఫోర్ చట్టం

4. ✓

Question Number : 210 Question Id : 9032012011 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

An enzyme whose production is constant irrespective of the metabolic state of
the cell is called as _____.

నెల్ యొక్క జీవక్రియ స్థితితో సంబంధం లేకుండా ఉత్పత్తి స్థిరంగా ఉండే ఎంజైమ్‌ను _____ అంటారు.

Options :

Constitutive Enzyme

కాన్స్టిట్యూటివ్ ఎంజైమ్

1. ✓

Repressible Enzyme

అణచివేయగల ఎంజైమ్

2. ✘

Inducible Enzyme

ప్రేరేపించగల ఎంజైమ్

3. ✘

Effector Enzyme

ఎఫెక్టర్ ఎంజైమ్

4. ✘

Question Number : 211 Question Id : 9032012012 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In humans, with only single 'X' chromosome results in _____.
మానవులలో, ఒకే క్రోమోజోమ్తో _____ వస్తుంది.

Options :

1. ✘ Down syndrome
డౌన్ సిండ్రోమ్
2. ✔ Turner syndrome
టర్నర్ సిండ్రోమ్
3. ✘ Edward syndrome
ఎడ్వర్డ్ సిండ్రోమ్
4. ✘ Klinefelter syndrome
క్లైన్ఫెల్టర్ సిండ్రోమ్

Question Number : 212 Question Id : 9032012013 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

ZO-ZZ type of sex-determination is present in which of the following?
ZO-ZZ రకం లింగ నిర్ధారణ కింది వాటిలో ఏది ఉంది?

Options :

1. ✔ Butterflies
సీతాకోకచిలుకలు
2. ✘

Fish
చేప

Pigeon
పావురం

3. ✘

Snake
పాములు

4. ✘

Question Number : 213 Question Id : 9032012014 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following is the connecting link between fishes and
amphibians?

కింది వాటిలో చేపలు మరియు ఉభయచరాల మధ్య అనుసంధాన లింక్ ఏది?

Options :

Proterospongia
ప్రోటెరోస్పోంగియా

1. ✘

Peripates
పెరిపేట్స్

2. ✘

Protopterus
ప్రోటోప్టెరస్

3. ✔

4. ✖

Question Number : 214 Question Id : 9032012015 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The total gross productivity minus the energy used up in the metabolic process is called the _____.

మొత్తం స్థూల ఉత్పాదకత మైనస్ జీవక్రియ ప్రక్రియలో వినియోగించబడే శక్తిని _____ అంటారు.

Options :

1. ✖ Net community productivity
నికర కమ్యూనిటీ ఉత్పాదకత

2. ✖ Gross primary productivity
స్థూల ప్రాథమిక ఉత్పాదకత

3. ✔ Net primary productivity
నికర ప్రాథమిక ఉత్పాదకత

4. ✖ Secondary productivity
ద్వితీయ ఉత్పాదకత

Question Number : 215 Question Id : 9032012016 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is an indicator of water pollution?

కింది వాటిలో నీటి కాలుష్యానికి సూచిక ఏది?

Options :

1. ✓ Utricularia
యుట్రీక్యులారియా

2. ✗ Zizyphus
జిజిఫస్

3. ✗ Ipomea
ఇపోమియా

4. ✗ Equisetum
ఈక్విసెటమ్

Question Number : 216 Question Id : 9032012017 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

“Tortula” belongs to which of the following group?

“టోర్టులా” కింది వాటిలో దేనికి చెందినది?

Options :

1. ✓ Mosses
నాచులు

2. ✗ Lichens
లైకెన్లు

3. ✗

Algae
ఆల్గే

Fungi
శిలీంధ్రాలు

4. ✖

Question Number : 217 Question Id : 9032012018 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

'Jalpara Sanctuary' of rhinos is in which State?
ఖడ్గమ్మగాల జల్పూర అభయారణ్యం ఏ రాష్ట్రంలో ఉంది?

Options :

Madhya Pradesh
మధ్యప్రదేశ్

1. ✖

Rajasthan
రాజస్థాన్

2. ✖

West Bengal
పశ్చిమ బెంగాల్

3. ✓

Maharashtra
మహారాష్ట్ర

4. ✖

Question Number : 218 Question Id : 9032012019 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Gorillas are specific to which of the following zoogeographical region?

గొరిల్లాలు కింది ఏ జూజియోగ్రాఫికల్ ప్రాంతానికి విశిష్టమైనవి?

Options :

Ethiopian region

ఇథియోపియన్ ప్రాంతం

1. ✓

Nearctic region

సమీప ప్రాంతం

2. ✘

Oriental region

ఓరియంటల్ ప్రాంతం

3. ✘

Palaeartic region

పాలియార్టిక్ ప్రాంతం

4. ✘

Question Number : 219 Question Id : 9032012020 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which behavior involves the rearing of the young?

పిల్లల పెంపకంలో ఏ ప్రవర్తన ఉంటుంది?

Options :

Allelomimetic Behaviour

అల్లెలోమిమెటిక & బిహేవియర్

1. ✘

Investigative Behaviour

పరిశోధనాత్మక ప్రవర్తన

2. ✘

Epimeletic Behaviour

ఎపిమెలెటిక్ బిహేవియర్

3. ✔

Contractual Behaviour

ఒప్పంద ప్రవర్తన

4. ✘

Question Number : 220 Question Id : 9032012021 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The taxis in response to contact with some solid object or other organism is called _____.

ఏదైనా ఘన వస్తువు లేదా ఇతర జీవితో సంబంధానికి ప్రతిస్పందనగా టాక్సీలను _____ అంటారు.

Options :

Thigmotaxis

థిగ్మోటాక్సిస్

1. ✔

Rheotaxis

రియోటాక్సిస్

2. ✘

Galvanotaxis

గాల్వనోటాక్సిస్

3. ✖

Geomagnetaxis

జియోమాగ్నెటాక్సిస్

4. ✖

BIOCHEMISTRY

Section Id : 90320130

Section Number
4

:

Section type : Online

Mandatory or
Optional : Optional

Number of
Questions : 60

Number of
Questions to be
attempted : 60

Section Marks : 60

Enable Mark as
Answered Mark
for Review and
Clear Response

:

Maximum
Instruction : 0

Time :

Sub-Section
Number : 1

Sub-Section Id : 90320132

Question

Shuffling Yes

Allowed :

Question Number : 221 **Question Id :** 9032012022 **Question Type :** MCQ **Option Shuffling :** Yes **Is**

Question Mandatory : No **Calculator :** None **Response Time :** N.A **Think Time :** N.A **Minimum**

Instruction Time : 0

Correct Marks : 1 **Wrong Marks :** 0

A patient's urine smells like a sweet syrup. The recommend diet should be
Devoid of?

Options :

1. ✓ Isoleucine

2. ✘ Phenyl alanine

3. ✘ Tryptophan

4. ✘ Tyrosine

Question Number : 222 **Question Id :** 9032012023 **Question Type :** MCQ **Option Shuffling :** Yes **Is**

Question Mandatory : No **Calculator :** None **Response Time :** N.A **Think Time :** N.A **Minimum**

Instruction Time : 0

Correct Marks : 1 **Wrong Marks :** 0

Absorption and metabolism of which vitamin is affected by Warfarin?

Options :

1. ✘ Vitamin A

2. ✓ Vitamin K

3. ✗ Vitamin D

4. ✗ Vitamin E

Question Number : 223 Question Id : 9032012024 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is true about diabetes mellitus?

- I. Decreased insulin levels
- II. Decreased insulin sensitivity
- III. Increased insulin levels
- IV. Increased glucose levels

Options :

1. ✗ I & II

2. ✗ II & IV

3. ✗ I, II & III

4. ✓ I, II & IV

Question Number : 224 Question Id : 9032012025 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The major function of sarcoplasmic reticulum in skeletal muscle is?

Options :

1. ✘ Store Potassium
2. ✘ Store Sodium
3. ✘ Store Acetyl Choline
4. ✔ Store Calcium

Question Number : 225 Question Id : 9032012026 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Glucokinase is different from hexokinase. Identify the correct statement.

Options :

1. ✘ Glucokinase has a higher affinity for glucose than hexokinase.
2. ✘ Glucokinase has a lower affinity for glucose than hexokinase and is inhibited by glucose-6-phosphate.
3. ✔ Glucokinase has a lower affinity for glucose than hexokinase and is not inhibited by glucose-6-phosphate.

4. ✘ Glucokinase has a higher turnover rate than hexokinase.

Question Number : 226 Question Id : 9032012027 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A patient with myocardial infarction was recommended Statin as a medicine, why?

Options :

1. ✔ It inhibit the enzyme HMG Co-A reductase
2. ✘ It decreases serum LDL levels
3. ✘ It increases serum HDL levels
4. ✘ It inhibits conversion of VLDL to LDL

Question Number : 227 Question Id : 9032012028 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Nitrogen atoms & Carbon atom of Urea ($\text{NH}_2\text{-CO-NH}_2$) in urea cyle are derived from?

Options :

1. ✘ Ammonia & Carbon dioxide
2. ✘ Ammonia & Aspartate

3. ✓ Ammonia, Aspartate & Carbon dioxide

4. ✘ Carbomyl phosphate & Carbon dioxide

Question Number : 228 Question Id : 9032012029 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The final products of anaerobic respiration in mammalian cells?

Options :

1. ✓ Lactic acid

2. ✘ Glycerol

3. ✘ Ethyl alcohol

4. ✘ Ethyl alcohol and Carbon dioxide

Question Number : 229 Question Id : 9032012030 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following derivative of beta-carotene serve as visual pigment?

Options :

1. ✓ Retinal

2. ✘ Retinol

3. ✘ Retinoid

4. ✘ Retinoic acid

Question Number : 230 Question Id : 9032012031 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Oxidation of fatty acid with odd number of carbons produces which of the following?

Options :

1. ✘ Acetoacetyl CoA and Propionyl CoA

2. ✘ Acetyl CoA only

3. ✘ Propionyl CoA only

4. ✔ Acetyl CoA and Propionyl CoA

Question Number : 231 Question Id : 9032012032 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The brown color of human faeces is due to which pigment?

Options :

1. ✘ Stecobilirubin
2. ✘ Stercobilinogen
3. ✔ Stercobilin
4. ✘ Stecobilin

Question Number : 232 Question Id : 9032012033 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A young child has emaciation of body, dry and wrinkled skin, and thinning of limbs. These symptoms are related to?

Options :

1. ✘ Protemia
2. ✘ Kwashiorkor
3. ✔ Marasmus
4. ✘ Both Kwashiorkor & Marasmus

Question Number : 233 Question Id : 9032012034 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Inappropriate secretion of Anti-diuretic hormone is associated with

- I. Diabetes mellitus
- II. Diabetes insipidus
- III. Hyponatremia
- IV. Water intoxication

Options :

1. ✘ I, II, III, & IV

2. ✔ II & III

3. ✘ II, III, & IV

4. ✘ I & III

Question Number : 234 Question Id : 9032012035 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Nucleotides are polymerized to nucleic acids through which of the following
bonds?

Options :

1. ✘ Glycosidic bond

2. ✘ Peptide bond

3. ✔ Phosphodiester bond

4. ✘ Phosphoanhydride bond

Question Number : 235 Question Id : 9032012036 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The fluidity of biological membranes is least influenced by which of the following?

Options :

1. ✔ Unsaturated fatty acids

2. ✘ Saturated fatty acids

3. ✘ Cholesterol

4. ✘ Phosphatidylethanolamine

Question Number : 236 Question Id : 9032012037 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Identify the correct statements about Telomere?

- I. Telomeres consists of double-stranded DNA
- II. Telomeres consists of single-stranded DNA
- III. Telomeres shorten with each cell division
- IV. Telomere shortening causes aging and telomerase prevents aging

Options :

- 1. ✘ III
- 2. ✔ I & III
- 3. ✘ I, III & IV
- 4. ✘ II, III & IV

Question Number : 237 Question Id : 9032012038 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Enzymes Ligase & Lyase catalyzes which of the following reactions, respectively?

Options :

- 1. ✘ Intramolecular rearrangement of bonds
- 2. ✘ Intermolecular rearrangement of bonds
- 3. ✔ Formation of bonds & Breaking of bonds

4. ✘ Breaking of bonds & Formation of bonds

Question Number : 238 Question Id : 9032012039 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which enzymes cleaves C-terminal side of Arginine residues of a peptide is?

Options :

1. ✘ Amylase

2. ✘ Pepsin

3. ✘ Chymotrypsin

4. ✔ Trypsin

Question Number : 239 Question Id : 9032012040 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Increase in substrate concentration relieves which kind of enzyme inhibition.

Options :

1. ✔ Competitive

2. ✘ Uncompetitive

Non-competitive

3. ✘

Allosteric

4. ✘

Question Number : 240 Question Id : 9032012041 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

True statement about focal adhesions and hemidesmosomes?

- I. Both are cell-matrix interactions
- II. Both are cell-cell interactions
- III. Focal adhesions are cell-cell and hemidesmosomes are cell-matrix interactions
- IV. Both are anchoring junctions

Options :

1. ✘ I

2. ✘ II

3. ✘ II & IV

4. ✔ I & IV

Question Number : 241 Question Id : 9032012042 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The correct statement about action potential is?

Options :

1. ✓ Na⁺ ions in and K⁺ ions out of the cell.
2. ✗ Na⁺ ions out and K⁺ ions into the cell.
3. ✗ Both Na⁺ and K⁺ ions into the cell.
4. ✗ Both Na⁺ and K⁺ ions out of the cell.

Question Number : 242 Question Id : 9032012043 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The first product of glycogenolysis in muscle is?

Options :

1. ✗ Glucose
2. ✗ UDP-Glucose
3. ✓ Glucose-1-phosphate
4. ✗ Glucose-6-phosphate

Question Number : 243 Question Id : 9032012044 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following nutrient is essential for synthesis of DNA components?

Options :

1. ✘ Ascorbic acid

2. ✘ beta-carotene

3. ✘ Calciferol

4. ✔ Folic acid

Question Number : 244 Question Id : 9032012045 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Mitochondria-associated membranes represent which region of an eukaryotic cell?

Options :

1. ✘ Inter-membrane space of the inner and outer membranes of Mitochondria

2. ✔ Interacting region between mitochondria and Endoplasmic reticulum

3. ✘ Interface of mitochondria with nuclear membrane

4. ✘ Interface of mitochondria and plasma membrane

Question Number : 245 Question Id : 9032012046 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Number of Heavy chains in Secretary Immunoglobulin A?

Options :

1
1. ✘

2
2. ✘

4
3. ✔

5
4. ✘

Question Number : 246 Question Id : 9032012047 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The enzyme that catalyze the condensation of acyl and malonyl groups in fatty acid synthase complex is?

Options :

1. ✘ Acyl carrier protein

2. ✘ Acetyl co-A ACP transacetylase

3. ✘ Malonyl co-A ACP transferase

4. ✔ β -ketoacyl ACP synthase

Question Number : 247 Question Id : 9032012048 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which immune cells secrete Histamine?

Options :

1. ✘ B-Cells

2. ✘ Eosinophils

3. ✘ Macrophages

4. ✔ Mast cells

Question Number : 248 Question Id : 9032012049 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Variable region present in which of the following component of Immunoglobulin?

Options :

1. ✘ C-end of L-chain
2. ✘ C-end of H & L chain
3. ✔ N-end of H & L Chain
4. ✘ N-end of H-chain

Question Number : 249 Question Id : 9032012050 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Antibodies transmitted from mother milk to baby is an example for?

Options :

1. ✘ Naturally active immunity
2. ✘ Artificial active immunity
3. ✔ Natural passive immunity
4. ✘ Artificial passive immunity

Question Number : 250 Question Id : 9032012051 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The deficiency of which hormone results in lowering of blood calcium levels?

Options :

1. ✘ Calcitonin

2. ✔ Parathormone

3. ✘ Cortisol

4. ✘ Thyroxine

Question Number : 251 Question Id : 9032012052 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Uncoupling of oxidative phosphorylation results in?

Options :

1. ✘ Inability to produce heat by the operation of the electron transport chain.

2. ✔ Operation of the electron transport chain without ATP production.

3. ✘ A dependence on ADP for the electron transport chain to operate.

4. ✘ Inability to oxidize NADH by the electron transport chain.

Question Number : 252 Question Id : 9032012053 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Identify the correct statements about the carbon skeletons of amino acids?

- I. Ketogenic amino acids can give rise to acetyl-CoA.
- II. Glucogenic amino acids can give rise to glucose in starvation
- III. Ketogenic amino acids can be converted to Mevalonate.
- IV. Some amino acids are both glucogenic and ketogenic.

Options :

1. ✘ I & IV

2. ✘ I, II & III

3. ✔ I, II, & IV

4. ✘ III & IV

Question Number : 253 Question Id : 9032012054 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Incomplete divided ventricle can be seen in the heart of which of the following?

Options :

1. ✘ Amphibians

2. ✘ Snake

3. ✔ Reptiles

4. ✘ Fish

Question Number : 254 Question Id : 9032012055 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Liver glycogen, but not muscle glycogen is served as a source of glucose for tissues including the brain. Why?

I. Muscle glycogen is highly branched

II. Muscle does not have a debranching enzyme.

III. Muscle lacks glucose-6-phosphatase.

IV. Muscle lacks glucose-1-phosphatase

Options :

1. ✘ I

2. ✘ I & II

III

3. ✓

III & IV

4. ✘

Question Number : 255 Question Id : 9032012056 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The phenomenon of an extracted chlorophyll to emit the light at a lower energy level is known as?

Options :

Fluorescence

1. ✓

Red shift

2. ✘

Phosphorescence

3. ✘

Photobleaching

4. ✘

Question Number : 256 Question Id : 9032012057 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Based on Frederick Griffith's experiment the virulence of pneumococcus is due to?

Options :

1. ✘ Lysosome
2. ✘ Ribosome
3. ✘ Chromosome
4. ✔ Capsule

Question Number : 257 Question Id : 9032012058 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Chromatin replicate in which phase of the cell cycle?

Options :

1. ✘ Interphase
2. ✔ Metaphase
3. ✘ Anaphase
4. ✘ Telophase

Question Number : 258 Question Id : 9032012059 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

RNA Polymerase binds at which part of DNA?

Options :

1. ✘ Cistron
2. ✘ Intron
3. ✔ Promoter
4. ✘ Operator

Question Number : 259 Question Id : 9032012060 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Hormones of which gland are modified amino acids?

Options :

1. ✘ Pituitary
2. ✔ Adrenal Medulla
3. ✘ Adrenal Cortex
4. ✘

Pancreas

Question Number : 260 Question Id : 9032012061 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The protein coat of a coronavirus is known as?

Options :

1. ✘ Capsule
2. ✔ Capsid
3. ✘ Cell-membrane
4. ✘ Viral wall

Question Number : 261 Question Id : 9032012062 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of following organisms will have the highest % of unsaturated fatty acids their cell membranes?

Options :

1. ✘ Freshwater fish

2. ✓ Antarctic fish

3. ✘ Himalayan fish

4. ✘ Saltwater fish

Question Number : 262 Question Id : 9032012063 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Ricin is an abundant protein component of castor beans and is toxic to mammalian cells. The most likely mechanism how ricin enters the mammalian cell is?

Options :

1. ✓ Packaged into vesicles and endocytosis

2. ✘ Internalization with help of chaperones

3. ✘ Interaction with SNARE proteins

4. ✘ Binding to clathrin proteins

Question Number : 263 Question Id : 9032012064 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Ethylene fosters fruit ripening process by inducing the expression of?

Options :

1. ✓ Polygalacturonase

2. ✘ Chitinase

3. ✘ Galactosidase

4. ✘ S-adenosylmethionine

Question Number : 264 Question Id : 9032012065 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The intrinsic factor is required for absorption of?

Options :

1. ✘ Iron

2. ✓ Vitamin B12

3. ✘ Molybdenum

4. ✘ Zinc

Question Number : 265 Question Id : 9032012066 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following changes takes place when a skeletal muscle contracts?

Options :

1. ✘ Actin filaments contract
2. ✘ Myosin filaments contract
3. ✔ I-band become shorter
4. ✘ Z discs move farther apart

Question Number : 266 Question Id : 9032012067 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Human insulin is a 51-amino acid peptide hormone. How many molecules of 0.1% SDS can bind to human insulin.

Options :

1. ✔ 26
2. ✘ 51
3. ✘ 76
4. ✘

Question Number : 267 Question Id : 9032012068 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which chromatographic technique employs highly specific interactions between pairs of biological materials such as receptor-ligand?

Options :

1. ✘ Ion-exchange chromatography
2. ✘ Gel-filtration chromatography
3. ✘ Adsorption chromatography
4. ✔ Affinity chromatography

Question Number : 268 Question Id : 9032012069 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Treating cells with cyclohexamide results in inhibition of?

Options :

1. ✘ DNA Replication

Chromosome segregation

2. ✘

Transcription

3. ✘

Protein synthesis

4. ✔

Question Number : 269 Question Id : 9032012070 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

DNA replication in eukaryotes is different from that of prokaryotes. Identify the correct statement

Options :

DNA replication in eukaryotes is unidirectional

1. ✘

DNA replication in eukaryotes is discontinuous

2. ✔

Eukaryotes use DNA primer rather than RNA primer

3. ✘

In Eukaryotes lagging and leading strand are synthesized by two different enzymes

4. ✘

Question Number : 270 Question Id : 9032012071 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The proofreading activity of DNA polymerase III is due to its?

Options :

1. ✘ 5' to 3' endonuclease activity
2. ✘ 3' to 5' endonuclease activity
3. ✘ 5' to 3' exonuclease activity
4. ✔ 3' to 5' exonuclease activity

Question Number : 271 Question Id : 9032012072 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The enzyme responsible for removing supercoiling in replicating DNA ahead of the replication fork is?

Options :

1. ✘ Helicase
2. ✔ Topoisomerase
3. ✘ Endonuclease
4. ✘

Exonuclease

Question Number : 272 Question Id : 9032012073 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A mutation occurred in DNA wherein AT base pair is replaced by GC Base pair, which is an example of?

Options :

1. ✘ Transversion

2. ✔ Transition

3. ✘ Silent

4. ✘ Inversion

Question Number : 273 Question Id : 9032012074 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one out of the following is a Zn^{2+} requiring enzyme?

Options :

1. ✔ Phosphoglucomutase

2. ✘ Pyruvate dehydrogenase

3. ✘ Lactate dehydrogenase

4. ✘ Malate dehydrogenase

Question Number : 274 Question Id : 9032012075 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The molecule with highest redox potential is?

Options :

1. ✔ O₂

2. ✘ NADH+H

3. ✘ NAD

4. ✘ FAD

Question Number : 275 Question Id : 9032012076 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Four proteins of sizes 100, 75, 50, and 25 kDa are subjected to SDS-PAGE and Gel-filtration chromatography. Which protein elute fast in both these chromatography techniques, respectively?

Options :

1. ✘ 25 kDa in both occasions
2. ✔ 25kDa and 100 kDa
3. ✘ 100 kDa and 25 kDa
4. ✘ 100 kDa in both occasions

Question Number : 276 Question Id : 9032012077 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

When type B agglutinin is present on the RBC, his/her blood would contain which antibodies?

Options :

1. ✘ No antibodies against A and B
2. ✔ Anti-A
3. ✘ Anti-B
4. ✘

Anti-A & Anti-B

Question Number : 277 Question Id : 9032012078 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The composition of lymph with respect to blood can be expressed as?

Options :

1. ✘ RBC, no platelets, proteins with lymphocytes
2. ✘ No RBC, no platelets, less proteins with lymphocytes
3. ✔ No RBC, no platelets, less proteins with macrophages.
4. ✘ RBC, no platelets, less proteins with macrophages

Question Number : 278 Question Id : 9032012079 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Identify the correct statement about migration of DNA molecules in gel electrophoresis

Options :

1. ✘ Longer DNA molecules migrate faster

2. ✘ DNA migrate from basic to acidic terminals
3. ✔ DNA migrate from negative to positive terminals
4. ✘ DNA migrate from positive to negative terminals.

Question Number : 279 Question Id : 9032012080 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The yellow color of golden rice is due to?

Options :

1. ✘ Chlorophyll A
2. ✘ Chlorophyll B
3. ✘ Curcumin
4. ✔ beta-carotene

Question Number : 280 Question Id : 9032012081 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Identify the correct statement about Isoschizomers?

Options :

1. ✘ They have same recognition sequence but cleave DNA at different recognition site
2. ✘ They have same recognition site and different recognition sequence
3. ✔ They have same recognition sequence and cleave the DNA at the same positions
4. ✘ They have different recognition sites and sequences

GENETICS

Section Id : 90320131

Section Number
:
5

Section type : Online

Mandatory or
Optional : Optional

Number of
Questions : 60

Number of
Questions to be 60
attempted :

Section Marks : 60

Enable Mark as
Answered Mark Yes
for Review and
Clear Response

:

Maximum

Instruction 0

Time :

Sub-Section
Number : 1

Sub-Section Id : 90320133

Question

Shuffling Yes

Allowed :

Question Number : 281 Question Id : 9032012082 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the type of genetic cross in which the individual in question is crossed with an individual known to be homozygous for a recessive trait?

Options :

Dihybrid cross

1. ✘

Reciprocal cross

2. ✘

Parental cross

3. ✘

4. ✔ Test cross

Question Number : 282 Question Id : 9032012083 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

It has been found that 220 different alleles exist at a certain locus of the human genome. How many alleles for this gene would be found in a somatic cell of each person?

Options :

1. ✘ 220

2. ✘ 46

3. ✘ 23

4. ✔ 2

Question Number : 283 Question Id : 9032012084 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following would you calculate to investigate whether there is a relationship between two variables?

Options :

1. ✔ Correlation coefficient

2. ✘ Variance

3. ✘ Standard deviation

4. ✘

Selection coefficient

Question Number : 284 Question Id : 9032012085 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the purpose of QTL analysis?

Options :

1. ✘ The calculation of a concordance value
2. ✔ The identification of chromosome regions associated with a complex trait
3. ✘ The identification of additive genes
4. ✘ The discrimination between traits that vary continuously and discontinuously

Question Number : 285 Question Id : 9032012086 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is a X-linked recessive disorder?

Options :

1. ✘ Sickle cell anemia

2. ✘ Albinism

3. ✔ Colour blindness

4. ✘ Phenylthiocarbamide tasting

Question Number : 286 Question Id : 9032012087 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If the genes for a trait are inherited by both men and women but only show up in the phenotype of women, they are referred to as _____ genes.

Options :

1. ✘ Sex controlled

2. ✘ Codominant

3. ✔ Sex-limited

4. ✘ Dominant

Question Number : 287 Question Id : 9032012088 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Hemophilia A and hemophilia B have nearly identical phenotypes, but they result from mutations in different genes on the X chromosome. This is an example of:

Options :

1. ✓ Locus heterogeneity
2. ✗ Allelic heterogeneity
3. ✗ Variable expressivity
4. ✗ Compound heterozygosity

Question Number : 288 Question Id : 9032012089 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The unit of map distance in a linkage map is

Options :

1. ✗ Base pairs
2. ✓ Centimorgan
3. ✗ Centimeter
4. ✗ Nucleotide

Question Number : 289 Question Id : 9032012090 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If there is a family history of genetic disorders, knowing the gender of an unborn child can be helpful because:

Options :

1. ✓ Male children are more likely to have x-linked traits show up in their phenotype

2. ✘ Male children are more likely to have autosomal defects show up in their phenotypes

3. ✘ Female children are more likely to have autosomal defects show up in their phenotypes

4. ✘ Male children are more likely to have x-linked traits show up in their phenotype and Female children are more likely to have autosomal defects show up in their phenotypes

Question Number : 290 Question Id : 9032012091 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The tendency of genes to be transmitted together exemplifies

Options :

1. ✘ Recombination

2. ✘ Chromosomal interference

3. ✓ Genetic linkage

4. ✘ Independent assortment

Question Number : 291 Question Id : 9032012092 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

An allele that is not expressed in a heterozygote is an example of

Options :

1. ✘ Dominant trait

2. ✓ Recessive trait

3. ✘ A mutated gene

4. ✘ Pure breeding type

Question Number : 292 Question Id : 9032012093 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

An individual with two different alleles for a given trait is known as a(n)

Options :

1. ✘ Phenotype

2. ✘ Recombinant

3. ✔ Heterozygote

4. ✘ Homozygote

Question Number : 293 Question Id : 9032012094 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The process of taking of naked DNA by the bacterial cell is called

Options :

1. ✘ Conjugation

2. ✔ Transformation

3. ✘ Transduction

4. ✘ Recombination

Question Number : 294 Question Id : 9032012095 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The extrachromosomal genetic elements present in bacteria are called

Options :

1. ✘ Transposons
2. ✘ Insertion sequences
3. ✔ Plasmids
4. ✘ Transposons and Insertion sequences

Question Number : 295 Question Id : 9032012096 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Meiotic recombination involves the breakage and reunion of DNA molecules from

Options :

1. ✔ Homologous non-sister chromatids
2. ✘ Homologous sister chromatids
3. ✘ Maternal and Paternal gametes
4. ✘

Heterologous chromosomes

Question Number : 296 Question Id : 9032012097 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Genetic rearrangement that may involve an RNA intermediate is a:

Options :

1. ✘ Inversion
2. ✘ Duplication
3. ✘ Translocation
4. ✔ Transposition

Question Number : 297 Question Id : 9032012098 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is involved in genomic imprinting?

Options :

1. ✘ Alternate splicing
2. ✘ RNA editing

DNA methylation

3. ✓

Telomere shortening

4. ✘

Question Number : 298 Question Id : 9032012099 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The RNA molecule that is associated with pre-mRNA splicing is

Options :

1. ✘ miRNA

2. ✘ rRNA

3. ✓ snRNA

4. ✘ tRNA

Question Number : 299 Question Id : 9032012100 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Pick up the right combination

Options :

1. ✘ Prokaryotes – Nuclear membrane

2. ✓ Eukaryotes – introns
3. ✘ Prokaryotes – Alternate splicing
4. ✘ Eukaryotes – operons

Question Number : 300 Question Id : 9032012101 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is a post translational modification?

Options :

1. ✘ Splicing
2. ✓ Glycosylation
3. ✘ RNA editing
4. ✘ Translocation

Question Number : 301 Question Id : 9032012102 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Insertion of which of the following number of nucleotides will not change the reading frame of the gene

Options :

1. ✘ One

2. ✘ Two

3. ✔ Three

4. ✘ One and Two

Question Number : 302 Question Id : 9032012103 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following types of mutation is most likely to result from UV exposure?

Options :

1. ✔ Thymidine dimer

2. ✘ Chromosome breakage

3. ✘ Frameshift mutation

4. ✘ Nonsense mutation

Question Number : 303 Question Id : 9032012104 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A mutation in a codon leads to the substitution of one amino acid with another.
What is the name for this type of mutation?

Options :

1. ✘ Nonsense mutation

2. ✔ Missense mutation

3. ✘ Frameshift mutation

4. ✘ Promoter mutation

Question Number : 304 Question Id : 9032012105 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a protein database ?

Options :

1. ✘ Uniprot

2. ✘ Swissprot

3. ✘ PDB

4. ✔ ENA

Question Number : 305 Question Id : 9032012106 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following terms describes a bacterial cell that has lost its ability to synthesize leucine?

Options :

1. ✘ Hfr

2. ✘ F-

3. ✔ auxotrophic

4. ✘ prototrophic

Question Number : 306 Question Id : 9032012107 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following vector is used for cloning very large insert DNA

Options :

1. ✘ Plasmid vector
2. ✔ YAC vector
3. ✘ Phage vector
4. ✘ Cosmid Vector

Question Number : 307 Question Id : 9032012108 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is a blotting technique used for blotting RNA

Options :

1. ✘ Southern
2. ✔ Northern
3. ✘ Western
4. ✘ Elisa

Question Number : 308 Question Id : 9032012109 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which enzyme catalyses the unwinding of DNA?

Options :

1. ✘ Unwindase
2. ✘ Topoisomerase
3. ✔ Helicase
4. ✘ Endonuclease

Question Number : 309 Question Id : 9032012110 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is responsible for secondary immune responses?

Options :

1. ✘ Naive lymphocytes
2. ✔ Memory lymphocytes
3. ✘ Effector lymphocytes
4. ✘ Antibodies

Question Number : 310 Question Id : 9032012111 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Insect resistant transgenic cotton plants are produced by transferring genes
from _____ to the susceptible plant

Options :

1. ✘ A resistant cotton plant
2. ✘ Agrobacterium tumefaciens
3. ✔ Bacillus thuringiensis
4. ✘ Bacillus subtilis

Question Number : 311 Question Id : 9032012112 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following bacteria is used for genetic transformation of plants

Options :

1. ✔ Agrobacterium
2. ✘

Pseudomonas

3. ✘ Azospirillum

4. ✘ Bacillus

Question Number : 312 Question Id : 9032012113 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is an autoimmune disorder?

Options :

1. ✔ Rheumatoid arthritis

2. ✘ Cardiovascular disease

3. ✘ Typhoid fever

4. ✘ HIV/AIDS

Question Number : 313 Question Id : 9032012114 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of these cell types is an important antigen presenting cell?

Options :

1. ✘ Helper T cells
2. ✘ Natural Killer cells
3. ✔ Dendritic cells
4. ✘ Epithelial cells

Question Number : 314 Question Id : 9032012115 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is a secondary lymphoid organ?

Options :

1. ✘ Bone marrow
2. ✘ Hypothalamus
3. ✔ Spleen
4. ✘ Thymus

Question Number : 315 Question Id : 9032012116 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Reverse transcriptase is the enzyme that

Options :

1. ✘ Makes RNA from DNA template
2. ✔ Makes DNA from RNA template
3. ✘ Makes RNA from RNA template
4. ✘ Makes DNA from DNA template

Question Number : 316 Question Id : 9032012117 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In which of the following molecule errors are corrected

Options :

1. ✘ Protein
2. ✔ DNA
3. ✘ RNA
4. ✘

Carbohydrate

Question Number : 317 Question Id : 9032012118 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Pick of the right combination

Options :

1. ✘ Plasmid – site specific recombination
2. ✘ Holliday junction – Non homologous end joining
3. ✘ Recombination – Mitosis
4. ✔ RecA protein – Homologous recombination

Question Number : 318 Question Id : 9032012119 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a PCR based molecular marker ?

Options :

1. ✔ RFLP markers
2. ✘ RAPD Markers

3. ✘ SSR Markers

4. ✘ AFLP Markers

Question Number : 319 Question Id : 9032012120 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following enzyme is used for phosphorylation of DNA

Options :

1. ✘ Ligase

2. ✘ Exonuclease

3. ✘ Phosphatase

4. ✔ Kinase

Question Number : 320 Question Id : 9032012121 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Pick up the wrong sentence regarding gene expression

Options :

1. ✘ Not all genes in living organisms produce protein

Most eukaryotic genes undergo splicing to remove the intronic sequences from the primary transcript

2. ✘

3. ✔ Each protein coding gene in eukaryotes produces only a single polypeptide

4. ✘ In prokaryotes some of the genes are physically grouped and regulated together

Question Number : 321 Question Id : 9032012122 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Synonymous SNPs are possible because of

Options :

1. ✘ DNA repair

2. ✘ Triplet codons

3. ✔ Codon redundancy

4. ✘ Anticodons

Question Number : 322 Question Id : 9032012123 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Number of genes in Escherichia coli is

Options :

1. ✘ ~500

2. ✔ ~4,500

3. ✘ >10000

4. ✘ >6000

Question Number : 323 Question Id : 9032012124 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

AGGTATCGCAT is a sequence from the sense strand of a gene. What will be the corresponding sequence of the transcribed mRNA?

Options :

1. ✘ UGGTUTCGCAT

2. ✔ AGGUAUCGCAU

3. ✘ UCCAUAGCGUA

4. ✘ ACCUAUGCGAU

Question Number : 324 Question Id : 9032012125 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How many amino acids are encoded by the following mRNA sequence?
CUUGAAGCGAUAUGA

Options :

1. ✓ 4

2. ✗ 5

3. ✗ 9

4. ✗ 13

Question Number : 325 Question Id : 9032012126 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following correctly describes prokaryotic ribosomes?

Options :

1. ✓ A 70S structure with 50S and 30S subunits

2. ✗ A 70S structure with 40S and 30S subunits

3. ✘ A 80S structure with 50S and 30S subunits

4. ✘ A 80S structure with 60S and 40S subunits

Question Number : 326 Question Id : 9032012127 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The genome is defined as:

Options :

1. ✘ The haploid DNA content of an organism

2. ✔ Total DNA content of an organism

3. ✘ All the genes of an organism

4. ✘ All genes and proteins of an organism

Question Number : 327 Question Id : 9032012128 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is polyploidy?

Options :

1. ✘ A chromosome which has replicated many times, without mitosis occurring

2. ✘ A chromosomal inversion that includes the centromere

3. ✘ Extra copies of a gene on a chromosome

4. ✔ An extra set of chromosomes

Question Number : 328 Question Id : 9032012129 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following cytogenetic techniques would be the most likely to identify a microdeletion?

Options :

1. ✘ G banding

2. ✘ R banding

3. ✔ Fluorescence in situ hybridization

4. ✘ Inversion analysis

Question Number : 329 Question Id : 9032012130 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following defines the Hardy-Weinberg equilibrium?

Options :

1. ✓ Constant allele frequencies which do not change from generation to generation
2. ✗ Heterozygosity at all loci
3. ✗ Elimination of all lethal alleles
4. ✗ Elimination of genetic drift

Question Number : 330 Question Id : 9032012131 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Why are heat stable DNA polymerases an essential component of the polymerase chain reaction?

Options :

1. ✗ All components of a PCR reaction are from thermophilic bacteria
2. ✗ These polymerases are needed to melt DNA
3. ✓ These polymerases do not denature at the temperatures used to melt DNA
4. ✗ These polymerases can be easily synthesized in a laboratory

Question Number : 331 Question Id : 9032012132 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

You are inserting your gene of interest into the Lac Z gene in a plasmid also containing a tetracycline resistance gene. You plate your transformed bacteria on media containing tetracycline and X-gal. Which of the following results would indicate a clone with recombinant plasmids?

Options :

1. ✘ A clone which did not grow on the tetracycline plates

2. ✔ A white colony on the tetracycline plates

3. ✘ A blue colony on the tetracycline plates

4. ✘ A red colony on the tetracycline plates

Question Number : 332 Question Id : 9032012133 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following Ig is involved in mediating allergic reactions

Options :

1. ✘ IgG

2. ✘ IgM

3. ✓ IgE

4. ✘ IgA

Question Number : 333 Question Id : 9032012134 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following reactions is required for proofreading (i.e. correcting replication errors) during DNA replication by DNA polymerase III?

Options :

1. ✓ 3' - 5' exonuclease activity

2. ✘ 5' - 3' exonuclease activity

3. ✘ 3' - 5' endonuclease activity

4. ✘ 5' - 3' endonuclease activity

Question Number : 334 Question Id : 9032012135 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Covaxin used for Covid-19 is a

Options :

1. ✘ mRNA vaccine
2. ✘ DNA vaccine
3. ✘ Protein subunit vaccine
4. ✔ Inactivated virus vaccine

Question Number : 335 Question Id : 9032012136 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Transfection refers to which of the following

Options :

1. ✘ Synthesis of mRNA from DNA template
2. ✘ Synthesis of protein based on mRNA sequence
3. ✔ Introduction of foreign gene into a cell
4. ✘ The process by which the cell become malignant

Question Number : 336 Question Id : 9032012137 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Production of transgenic animals require introduction of genes into

Options :

1. ✘ Stem cells
2. ✘ Red Blood cells
3. ✔ Eggs or embryos
4. ✘ Brain cells

Question Number : 337 Question Id : 9032012138 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Phytoremediation refers to use of _____ to remove toxic chemicals from the environment

Options :

1. ✘ Light
2. ✘ Phytase enzyme
3. ✔

Plants

Bacteria

4. ✘

Question Number : 338 Question Id : 9032012139 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

During replication of DNA discontinuous synthesis of DNA takes place in

Options :

1. ✘ Leading strand

2. ✔ Lagging strand

3. ✘ Both leading and lagging strands

4. ✘ Only in prokaryotic DNA replication

Question Number : 339 Question Id : 9032012140 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following does not occur during mitosis?

Options :

1. ✘ Chromosome condensation
2. ✘ Chromosomes align on the midplate of the cell
3. ✘ Sister chromatids separate and move to opposite poles
4. ✔ Pairing and synopsis of homologous chromosomes

Question Number : 340 Question Id : 9032012141 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

. Which of the following statement is correct regarding the internet

Options :

1. ✘ Internet is physically connecting computers
2. ✔ It is a network of networks which is not centrally controlled
3. ✘ It is networking of computers which is centrally controlled
4. ✘ Internet and worldwide web are same

MICROBIOLOGY

Section Id : 90320132

Section Number : 6

Section type : Online

Mandatory or Optional : Optional

Number of Questions : 60

Number of Questions to be attempted : 60

Section Marks : 60

Enable Mark as Answered Mark for Review and Clear Response : Yes

Maximum Instruction Time : 0

Sub-Section Number : 1

Sub-Section Id : 90320134

Question Shuffling Allowed : Yes

Question Number : 341 Question Id : 9032012142 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Antony von Leeuwenhoek in his series described living microbes as

Options :

1. ✘ Bacteria
2. ✔ Animalcules
3. ✘ Protozoa
4. ✘ Microorganisms

Question Number : 342 Question Id : 9032012143 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Who disproved the theory spontaneous generation of microbes

Options :

1. ✘ Robert Hook
2. ✘ Antony von Leeuwenhoek
3. ✔ Louis Pasteur
4. ✘ M.J. Berkley

Question Number : 343 Question Id : 9032012144 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The following microscope is used for visualization of living and transparency organisms

Options :

1. ✘ Bright field microscope
2. ✘ Dark field microscope
3. ✔ Phase contrast microscope
4. ✘ Electron microscope

Question Number : 344 Question Id : 9032012145 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A dark image against a bright background can be seen in

Options :

1. ✔ Bright field microscope
2. ✘ Dark field microscope

3. ✘ Fluorescent microscope

4. ✘ Electron microscope

Question Number : 345 Question Id : 9032012146 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The Dye crystal violet is

Options :

1. ✘ Anionic dye

2. ✔ Cationic dye

3. ✘ Neutral dye

4. ✘ Acidic dye

Question Number : 346 Question Id : 9032012147 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

.The staining technique used to identify *Mycobacterium tuberculosis*

Options :

1. ✘ Gram staining
2. ✘ Negative staining
3. ✘ Endospore staining
4. ✔ Acid fast staining

Question Number : 347 Question Id : 9032012148 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Sterilization by UV Radiation is called

Options :

1. ✘ Dry heat sterilization
2. ✘ Filtration
3. ✔ Cold sterilization
4. ✘ Gaseous sterilization

Question Number : 348 Question Id : 9032012149 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Blood agar medium is a

Options :

1. ✘ Synthetic medium
2. ✘ Complex medium
3. ✔ Enriched medium
4. ✘ Selective medium

Question Number : 349 Question Id : 9032012150 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Lowenstein Jenson medium is used to cultivation of

Options :

1. ✘ *E. coli*
2. ✘ *Bacillus sp.*
3. ✘ Lactose fermenting bacteria
4. ✔ *Mycobacterium*

Question Number : 350 Question Id : 9032012151 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The chemical techoic acids are present in

Options :

1. ✓ Gram positive bacteria
2. ✗ Gram negative bacteria
3. ✗ Viruses
4. ✗ Fungi

Question Number : 351 Question Id : 9032012152 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The temperature at which microbial cells are preserved in liquid nitrogen

Options :

1. ✗ -100°C
2. ✓ -196°C

3. ✘ 37°C

4. ✘ 50°C

Question Number : 352 Question Id : 9032012153 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Lysogenic strains of bacteriophages are also called

Options :

1. ✘ Virulent phages

2. ✔ Temperate phages

3. ✘ Filamentous phages

4. ✘ Viroids

Question Number : 353 Question Id : 9032012154 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Viral particles without nucleic acid and with only protein are called

Options :

1. ✔ Prions

2. ✘ Viroids

3. ✘ Virusoids

4. ✘ Satellite viruses

Question Number : 354 Question Id : 9032012155 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The bacteriat obtain both energy and carbon sources from organic compounds are called

Options :

1. ✘ Photo autotrophs

2. ✘ Photo heterotrophs

3. ✘ Chemo autotrophs

4. ✔ Chemo heterotrophs

Question Number : 355 Question Id : 9032012156 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The arrangement of organisms into groups or taxa is called

Options :

1. ✘ Nomenclature
2. ✘ systematics
3. ✔ classification
4. ✘ Identification

Question Number : 356 Question Id : 9032012157 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The main product of EMP pathway is

Options :

1. ✘ Citrate
2. ✘ CO₂
3. ✘ Acetate
4. ✔

Pyruvate

Question Number : 357 Question Id : 9032012158 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The terminal electron acceptor in aerobic respiration

Options :

1. ✓ O_2

2. ✗ CO_2

3. ✗ NO_3

4. ✗ H_2S

Question Number : 358 Question Id : 9032012159 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

During fermentation the sugar is converted into

Options :

1. ✗ Ethanol and oxygen

2. ✓ Ethanol and carbon dioxide

3. ✘ Ethanol and water

4. ✘ Oxygen and water

Question Number : 359 Question Id : 9032012160 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Tetracycline inhibits which part of the Ribosome subunit

Options :

1. ✘ 50S

2. ✓ 30S

3. ✘ 60S

4. ✘ 40S

Question Number : 360 Question Id : 9032012161 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

HEPA filters are used to filter

Options :

1. ✘ Soil
2. ✘ water
3. ✔ Air
4. ✘ antibiotics

Question Number : 361 Question Id : 9032012162 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

β -oxidation takes place in

Options :

1. ✔ Mitochondria
2. ✘ Cytoplasm
3. ✘ Nucleus
4. ✘ Chloroplast

Question Number : 362 Question Id : 9032012163 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The Mode of DNA replication is

Options :

1. ✘ Conservative and bidirectional
2. ✘ Semi conservative and unidirectional
3. ✔ Semi conservative and bidirectional
4. ✘ Conservative and unidirectional

Question Number : 363 Question Id : 9032012164 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The mechanism that does not occur in prokaryotes is

Options :

1. ✘ Transcription
2. ✔ Splicing

3. ✘ Translation

4. ✘ Replication

Question Number : 364 Question Id : 9032012165 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The enzyme that synthesizes cDNA from RNA is

Options :

1. ✘ DNA polymerase

2. ✘ DNA synthetase

3. ✘ DNA convertase

4. ✔ Reverse transcriptase

Question Number : 365 Question Id : 9032012166 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

During DNA replication the synthesis of the leading strand of DNA results in
Fragments known as

Options :

1. ✓ Okazaki fragments
2. ✗ Satellite fragments
3. ✗ Kornberg segment
4. ✗ Double-helixsegment

**Question Number : 366 Question Id : 9032012167 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0**

Correct Marks : 1 Wrong Marks : 0

The number of structural genes present in LAC Operon

Options :

1. ✓ 3
2. ✗ 2
3. ✗ 4

1

4. ✘

Question Number : 367 Question Id : 9032012168 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The structural gene(Y) of Lac operon codes for

Options :

1. ✘ Transacetylase

2. ✘ β -galactosidase

3. ✔ Permease

4. ✘ Laccase

Question Number : 368 Question Id : 9032012169 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The inducer of lac operon is

Options :

1. ✔ Lactose

2. ✘ Sucrose

3. ✘ Galactose

4. ✘ Glucose

Question Number : 369 Question Id : 9032012170 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The lac operon is

Options :

1. ✔ Is under negative and positive control

2. ✘ Is under positive control only

3. ✘ Is under negative control only

4. ✘ None

Question Number : 370 Question Id : 9032012171 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Transposable elements are first discovered in

Options :

1. ✓ Maize
2. ✗ wheat
3. ✗ Bacteria
4. ✗ virus

Question Number : 371 Question Id : 9032012172 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following is the first engineered plasmid vector?

Options :

1. ✗ pBR322
2. ✗ pBR320
3. ✗ pUC18
4. ✓ pSC101

Question Number : 372 Question Id : 9032012173 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The Viruses which attack bacteria are called

Options :

1. ✓ Bacteriophage
2. ✘ Lysophage
3. ✘ Virophage
4. ✘ Mycophage

Question Number : 373 Question Id : 9032012174 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The synthesis of RNA from DNA template is catalysed by

Options :

1. ✘ DNA Polymerase
2. ✓ RNA Polymerase

Helicase

3. ✘

Ligase

4. ✘

Question Number : 374 Question Id : 9032012175 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The mRNA start Codon that initiates translation

Options :

1. ✓ AUG

2. ✘ UAG

3. ✘ CUG

4. ✘ UAA

Question Number : 375 Question Id : 9032012176 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The enzymes which are commonly used in recombinant DNA technology are

Options :

1. ✘ Endonuclease and ligase
2. ✘ Restriction endonuclease and polymerase
3. ✔ Restriction endonuclease and ligase
4. ✘ Ligase and Lyase

Question Number : 376 Question Id : 9032012177 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The Segment of DNA that reads same forward and backward is called

Options :

1. ✘ cDNA
2. ✘ Plamid
3. ✘ cosmid
4. ✔ Palindromic DNA

Question Number : 377 Question Id : 9032012178 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Thermal Cycler' is used in the reaction

Options :

1. ✘ ELISA
2. ✘ Western blot
3. ✔ polymerase chain reaction
4. ✘ RFLP

Question Number : 378 Question Id : 9032012179 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The immunity that is obtained during a lifetime is called

Options :

1. ✔ Acquired immunity
2. ✘ Active immunity

3. ✘ Passive immunity

4. ✘ Herd Immunity

Question Number : 379 Question Id : 9032012180 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Monoclonal antibodies are usually produced from

Options :

1. ✘ Myeloma cells

2. ✔ Hybridoma cells

3. ✘ Monocytes

4. ✘ Adipocytes

Question Number : 380 Question Id : 9032012181 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Restriction endonucleases are also called

Options :

1. ✓ Molecular scissors

2. ✘ Ligases

3. ✘ plasmid

4. ✘ polymerases

Question Number : 381 Question Id : 9032012182 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The first antibodies produced during an immune response

Options :

1. ✘ IgG

2. ✘ IgA

3. ✘ IgD

4. ✓ IgM

Question Number : 382 Question Id : 9032012183 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Maturation of T-cell takes place in

Options :

1. ✓ Thymus

2. ✘ Bone marrow

3. ✘ Spleen

4. ✘ Lymphnode

Question Number : 383 Question Id : 9032012184 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The example for autoimmune disease

Options :

1. ✘ Rheumatoid arthritis

2. ✘ Psoriatic arthritis

3. ✘ HIV

4. ✓ All

Question Number : 384 Question Id : 9032012185 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The binding portion of antibody is

Options :

1. ✗ Fab

2. ✗ Fc

3. ✓ Paratope

4. ✗ Epitope

Question Number : 385 Question Id : 9032012186 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The nature of endotoxins

Options :

1. ✗ Protein

2. ✘ polysaccharide

3. ✔ lipopolysaccharide

lipid

4. ✘

Question Number : 386 Question Id : 9032012187 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Food intoxication refers to

Options :

1. ✘ Disease caused by presence of pathogens

2. ✔ Disease caused by presence of toxin formed in food

3. ✘ Disease caused by protozoans

4. ✘ None

Question Number : 387 Question Id : 9032012188 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The *Yersinia pestis* causes the following disease

Options :

1. ✓ Bubonic Plague

2. ✗ Rubella

3. ✗ Mumps

4. ✗ Measles

Question Number : 388 Question Id : 9032012189 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

'Blue baby syndrome' is caused due to presence of chemical in water

Options :

1. ✗ Copper

2. ✗ Mercury

3. ✓ Nitrate

4. ✗

Arsenic

Question Number : 389 Question Id : 9032012190 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following statement is incorrect

Options :

1. ✘ Enzymes are protein in nature
2. ✘ Enzymes are colloidal in nature
3. ✘ Enzymes are thermolabile
4. ✔ Enzymes are inorganic in nature and thrmostable.

Question Number : 390 Question Id : 9032012191 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Vaccination is not available for

Options :

1. ✘ Yellow Fever

2. ✘ Typhoid fever

3. ✔ Malaria

4. ✘ Hepatitis B

Question Number : 391 Question Id : 9032012192 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Conversion of NO_2^- to NO_3^- is carried out by following micro organism

Options :

1. ✔ Nitrobacter

2. ✘ Nitrosomonas

3. ✘ Nitrosococcus

4. ✘ Azospirillum

Question Number : 392 Question Id : 9032012193 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The pigment present in the root nodules of legumes

Options :

1. ✘ Bacteroid
2. ✘ Rhizome
3. ✔ Leghaemoglobin
4. ✘ Lectin

Question Number : 393 Question Id : 9032012194 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Example for symbiotic nitrogen fixer

Options :

1. ✘ Azospirillum
2. ✘ Nitrobacter
3. ✔ Rhizobium
4. ✘ Brady rhizobium

Question Number : 394 Question Id : 9032012195 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Streptomycin is produced by which of the following organisms?

Options :

1. ✘ Stretomycesnoursei
2. ✘ Streptomyces nodosus
3. ✘ Streptomyces fradiae
4. ✔ Streptomyces *griseus*

Question Number : 395 Question Id : 9032012196 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The method of food preservation in which food is frozen and sublimed to vapour
is called

Options :

1. ✘ Vaporization
2. ✘ drying

3. ✓ Lyophilisation

4. ✘ Spray drying

Question Number : 396 Question Id : 9032012197 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The Botulinum toxin is

Options :

1. ✓ Neurotoxin

2. ✘ Enterotoxin

3. ✘ Exotoxin

4. ✘ Endotoxin

Question Number : 397 Question Id : 9032012198 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The Antibiotic Penicillin produced from following fungi

Options :

1. ✓ *Penicilliumchrysogenum*

2. ✗ *Aspergillusniger*

3. ✗ Mucor

4. ✗ *Aspergillusfumigates*

Question Number : 398 Question Id : 9032012199 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Batch fermentation is also called

Options :

1. ✓ Closed system

2. ✗ Open system

3. ✗ Fed-Batch system

4. ✗ Sub-merged system

Question Number : 399 Question Id : 9032012200 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is the genome present in virus

Options :

1. ✘ DNA

2. ✘ RNA

3. ✔ DNA or RNA

4. ✘ DNA and RNA

Question Number : 400 Question Id : 9032012201 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following statements are true about the viruses?

Options :

1. ✘ Free-living microbes

2. ✔ Small Obligate intracellular parasites

3. ✘ parasites

4. ✘

Multicellular organisms