

Final

**The date
Facilities**

09-Dec-2022

09:00 AM

Subin II

Q No. : 1 Answer Agriculture is derived from which language?

200388

कृषि शब्द किस भाषा से लिया गया है?

Sanskrit

A

Sanskrit

Sanskrit

B

Sanskrit

Sanskrit

C

Sanskrit

Chinese

D

Sanskrit

Correct Ans. : C

Q No. : 2 Green revolution is responsible credited to

200389

हरित क्रांति किस व्यक्ति को दी गई है?

Rajendra Prasad

A

Jawahar Lal Nehru

Wheat/Rice production

B

Jawahar Lal Nehru

Rice production

C

Jawahar Lal Nehru

Rajendra Prasad

D

Jawahar Lal Nehru

Correct Ans. : B

Q No. : 3 Father of green revolution in India is

200390

हरित क्रांति के जनक कौन हैं?

Dr. Norman Borlaug

A

Dr. Norman Borlaug

Dr. B.S. Pandey

B

Dr. Norman Borlaug

Dr. B.S. Pandey

C

Dr. Norman Borlaug

Q No. : Dr. Virginia Rutter

Q. what glaze

Correct Ans. : B

Q No. : 2005903

Q. what food crop of India is

Soybean

A

chickpea

Rajma

B

millet

Sesameum

C

wheat

Rice

D

maize

Correct Ans. : B

Q No. : 2005904

Q. what is used to develop from which long pipe

Cane

A

oil

sugar

B

rice

Spices

C

oilseeds

Mustard

D

oil

Correct Ans. : A

Q No. : 2005905

Q. what crop is mostly grown in which state?

Uttar Pradesh

A

oil seeds

Madhya Pradesh

B

oil seeds

Rajasthan

C

oilseeds

Tamil Nadu

D

oilseeds

Correct Ans. : B

Q No. : 13

2003987

Which of the following is not a nitrogenous base?

Adenine

A

Thymine

Cytosine

B

Uracil

Guanine

C

Quin

Nucleic

D

Adenine

Correct Ans : D

Q No. : 14

2003988

Which of the following is not a nitrogenous base?

Adenine

Thymine

A

Uracil

Nucleic acid

B

Guanine

Nucleic acid

C

Uracil

Nucleic acid

D

Guanine

Correct Ans : B

Q No. : 15

2003989

Which of the following is not a nitrogenous base?

Adenine

Thymine

A

Uracil

Nucleic

B

Guanine

Nucleic acid

C

Uracil

Nucleic acid

D

Guanine

Correct Ans : B

Q No. : 16

2003990

Which of the following is not a nitrogenous base?

Adenine

Thymine

A

Uracil

Nucleic acid

के-सी

Chemical fertilizers

B

हरित कृषि

Green manure

C

जैव खाद

Compost and farmyard manure

D

कचरे पर पैदा की खाद

Correct Ans : B

Q No : 17 Which one of the following is not a bulky organic manure?

2003998

पशुमल है जो नहीं बल्की खाद नहीं है।

Manure manure

A

पैदा की खाद

Urban compost

B

खुरदरी खाद

Sludge

C

खुरद

Manure cake

D

खुरदरी खाद

Correct Ans : D

Q No : 18 Which one of the following is a green nitrogen crop?

2003998

पशुमल है जो नीले-हरे खाद की खाद है।

Sludge

A

खुरद

Sludge cake

B

हरित

Leguminosae

C

खुरद

Sludge cake

D

खुरद

Correct Ans : B

Q No : 19 Which is not a component of Integrated nutrient management?

2003998

जैव है जो नहीं है कि एक भाग है कि खाद नहीं है।

Manure cake

A

खुरद

B

खुरद

3003870

Drop new file

C

Drop new file

Drop new file

D

Drop new file

Correct Ans : B

Q No : 20 The essential part of the system for better physical storage function is

2003870

Drop new file

Drop new file

A

Drop new file

Drop new file

B

Drop new file

Drop new file

C

Drop new file

Drop new file

D

Drop new file

Correct Ans : B

Q No : 21 Which one of the following does not belong to the water control system?

2003870

Drop new file

Drop new file

A

Drop new file

Drop new file

B

Drop new file

Drop new file

C

Drop new file

Drop new file

D

Drop new file

Correct Ans : C

Q No : 22 Irrigation is a project launched by the Prime Minister in June 2018 in Nagpur district of Madhya Pradesh is

2003870

Drop new file

Drop new file

A

Drop new file

Drop new file

B

Drop new file

Drop new file

C

Drop new file

Q No. 27. Aban's Green Medium Irrigation Project

जल को नहर द्वारा खेतों में लाना

Correct Ans. : B

Q No. 28. Water supply through pipelines and tunnels in the State is known as

20044007

जल को नहरों के माध्यम से खेतों में लाना

Flowing

A

जल

Irrigation

B

नहर

Mineralisation

C

जल संचयन

Drainage

D

जल संचयन

Correct Ans. : B

Q No. 29. The crops that need a lot of water are

20044008

जल की बहुत अधिक आवश्यकता वाले फसलें

Rice and Maize

A

जल की बहुत

Wheat and Cotton

B

जल की बहुत

Rice and Wheat

C

जल की बहुत

Wheat and Chickpea

D

जल की बहुत

Correct Ans. : B

Q No. 30. Which state is benefited by Indira Gandhi canal project?

20044010

जल को नहरों के माध्यम से खेतों में लाना

Madhya Pradesh

A

पंजाब

Punjab

B

गुजरात

Rajasthan

C

उत्तर प्रदेश

Uttar Pradesh

D

महाराष्ट्र

Correct Ans. : C

Q No. 32 The word "Kathakali" is derived from which language?

20041026

Kathakali was derived from the word Kathakali

English

A

Kathak

Kathak

B

Kathak

Kathak

C

Kathak

Kathak

D

Kathak

Correct Ans : B

Q No. 33 Which fruit does Kathakali use to make the face?

20041026

Kathakali uses the fruit of the mango tree to make the face

Mango

A

Mango

Mango

B

Mango

Mango

C

Mango

Mango

D

Mango

Correct Ans : D

Q No. 34 Kathakali is a form of dance from which state?

20041027

Kathakali is a form of dance from the state of Kerala

Kerala

A

Kerala

Kerala

B

Kerala

Kerala

C

Kerala

Kerala

D

Kerala

Correct Ans : D

Q No. 35 Kathakali is a form of dance from which state?

20041027

Kathakali is a form of dance from the state of Kerala

Kerala

A

Kerala

Kerala

उत्तर :-

New Delhi

B

नई दिल्ली

New Delhi

C

नया

दिल्ली

D

नया

Correct Ans :- C

Q No :- 26 Important feature is preparation of protocol document :-

2004 to 9

which is taken as a model for the

document

A

नई

दिल्ली

B

नया

दिल्ली

C

नया

दिल्ली

D

नया

Correct Ans :- B

Q No :- 27 Which of the following systems is most useful in fully aware?

2004 to 9

which is taken as a model for the

document

A

नया

दिल्ली

B

नया

दिल्ली

C

नया

दिल्ली

D

नया

Correct Ans :- B

Q No :- 28 Thinking is most important power :-

2004 to 9

which is taken as a model for the

document

A

नया

B

नया

संकेत

अपने

C

संकेत

संकेत

D

संकेत

Correct Answer : C

Q No. 39 Optimal time for planting in jute is under north India

2004128

जुत का रोपण अक्टूबर से फरवरी के बीच होता है

अक्टूबर

A

जुल

जनवरी

B

मार्च

मार्च

C

मई

मई

D

जुल

Correct Answer : B

Q No. 40 Wind tunnel test is performed in which direction of wind?

2004133

जुल से अक्टूबर तक

East - South

A

जुल से अक्टूबर तक

East - North

B

जुल से अक्टूबर तक

North - East

C

जुल से अक्टूबर तक

North - West

D

जुल से अक्टूबर तक

Correct Answer : D

Q No. 41 Important water resource in mountainous areas is

2004133

जुल से अक्टूबर तक

Cataluña

A

जुल

पिना

B

जुल

Both Cataluña and Pina

C

जुल से अक्टूबर तक

Q No : 100

Q100

Correct Ans : B

Q No : 101 Major objective of environmental education is:-
20041009

create awareness about environment

Entertainment

A

entertainment

Decorative

B

entertainment

Religious and recreational

C

entertainment and recreation

All of the above

D

entertainment

Correct Ans : B

Q No : 102 Factors is directly related to which season?
20041007

entertainment and recreation

Summer season

A

entertainment

Winter season

B

entertainment

Spring season

C

entertainment

All the season

D

entertainment

Correct Ans : A

Q No : 103 Biological factor of fishes lives in:-
20041009

entertainment and recreation

Diverse region

A

entertainment

Diverse habitat

B

entertainment

Polyphasic longevity

C

entertainment and recreation

Thouja compacta

D

entertainment

Correct Ans : C

Q No. 46: Radiation therapy related to

2004203

अन्तराणु प्रकीर्णन (अणु प्रकीर्णन)
आंतराणु प्रकीर्णन

A

अणु प्रकीर्णन
आंतराणु प्रकीर्णन

B

अणु प्रकीर्णन (अणु प्रकीर्णन)
आंतराणु प्रकीर्णन

C

अणु प्रकीर्णन (अणु प्रकीर्णन)
आंतराणु प्रकीर्णन

D

अणु प्रकीर्णन

Correct Ans : B

Q No. 46: Which of the following is a type of radiation therapy?

2004203

अणु प्रकीर्णन (अणु प्रकीर्णन)
आंतराणु प्रकीर्णन

A

अणु प्रकीर्णन
आंतराणु प्रकीर्णन

B

अणु प्रकीर्णन
आंतराणु प्रकीर्णन

C

अणु प्रकीर्णन (अणु प्रकीर्णन)
आंतराणु प्रकीर्णन

D

अणु प्रकीर्णन

Correct Ans : C

Q No. 47: Radiation therapy is used to

2004203

अणु प्रकीर्णन (अणु प्रकीर्णन)
आंतराणु प्रकीर्णन

A

अणु प्रकीर्णन
आंतराणु प्रकीर्णन

B

अणु प्रकीर्णन
आंतराणु प्रकीर्णन

C

अणु प्रकीर्णन (अणु प्रकीर्णन)
आंतराणु प्रकीर्णन

D

अणु प्रकीर्णन

Correct Ans : B

Q No. 48: The objectives of radiation therapy are

2004203

A. Prevention

- B. Protection
C. Disinfection

any and all on any other B.

- A. not in B
B. water in B
C. also Paves in B

only A

A

- only A
only B

B

- only A
only A and B

C

- only A, B, C
all A, B and C

D

- all A, B and C

Correct Ans : B

Q No : 49 Optimum time for planting in water is-

2004/201

any of and and on any one B-

February

A

- April
August

B

- April
October

C

- April
May

D

if

Correct Ans : C

Q No : 50 Commercial method for propagation of water hyacinth-

2004/200

but in case of water hyacinth B-

Rooting

A

- offshoot
stem cutting

B

- cut with
leafy cutting

C

- cut with
thickened

D

upside

Correct Ans : B

Q No. 10

Which

of the

following

is not

a

type

of

the

same

as

Correct Answer : B

Q No. 10 The concept of carbon storage was given by which scientist for studies of a rich collection of plants in the mountains of peak mountain?

George C. Clark

George C. Clark

George C. Clark

George C. Clark

George C. Clark

George C. Clark

George C. Clark

George C. Clark

George C. Clark

Correct Answer : B

Q No. 10 Which of the following is not a type of carbon storage system?

Carbon storage system

Carbon storage system

Carbon storage system

Carbon storage system

Carbon storage system

Carbon storage system

Carbon storage system

Carbon storage system

Carbon storage system

Correct Answer : D

Q No. 10 Which of the following is not a type of carbon storage system?

Carbon storage system

Carbon storage system

Carbon storage system

Carbon storage system

Carbon storage system

2. **to breeding**

validity

standing up

3.

100% wet

Correct Answer : E

Q No : 18. Disbudding should be done for all FM the age of _____.

2008417

and no feasible _____ all as 4 years after

10 to 12 days

A.

10 to 12 day

5 to 10 days

B.

4 to 10 day

10 to 20 days

C.

10 to 20 day

2 to 5 days

D.

4 to 10 day

Correct Answer : C

Q No : 19. _____ is the technique in which various wild living species is selected from the main and introduced into remote reproduction forest of proper form with the help of introduction.

2008418

no selection of forest after going of wild life all as 4 years after selection of forest all as 4 years after selection of forest after selection of forest after selection of forest

Dispersive Dispersal

A.

dispersed species

Breeding

B.

100%

Artificial Dispersal

C.

100% species

Cultural Dispersal

D.

100% species

Correct Answer : C

Q No : 20. From the following, please choose identify disease is called?

2008419

1. It is a leafy rotting disease.

2. Usually transmitted disease is called, which you can protect against by vaccination.

40 to 100 years is called it for all years after

1. 10 to 20 years after

2. 10 to 20 years after, both are the same process as well as

100%

A.

100%

B.

100%

Question

Black Quarter

C

also both

Strepococcus

D

used for

Correct Answer: B

Q No - 01 _____ is the part of veterinary medicine that deals with the quality of the environment where animals live due to the control and maintain this environment) is adequate to do so that animal health is safeguarded.

_____ regulates all the aspects of animal health and welfare in the animal industry. It is the part of the veterinary medicine that deals with the quality of the environment where animals live due to the control and maintain this environment) is adequate to do so that animal health is safeguarded.

Salmon

A

used for

Salmonella

B

used for

Animal Hygiene

C

used for

Animal Hygiene

D

used for

Correct Answer: C

Q No - 02 The virus should be stored how many weeks before expected outbreak?

2008010

_____ is the part of veterinary medicine that deals with the quality of the environment where animals live due to the control and maintain this environment) is adequate to do so that animal health is safeguarded.

0-8 weeks

A

0-8 weeks

0-8 weeks

B

0-8 weeks

0-8 weeks

C

0-8 weeks

0-8 weeks

D

0-8 weeks

Correct Answer: B

Q No - 03 The virus are kept in the LAF for the minimum of how many days after their entry?

2008010

_____ is the part of veterinary medicine that deals with the quality of the environment where animals live due to the control and maintain this environment) is adequate to do so that animal health is safeguarded.

5 days

A

5 days

10 days

B

10 days

15 days

C

15 days

Q No : 88

28 days

28 days

Correct Ans : A

Q No : 89 After how many days of pregnancy (in weeks), Ashwathi was selected for drying management?

200 days

200 days

A

200 days

200 days

B

200 days

200 days

C

200 days

200 days

D

200 days

Correct Ans : D

Q No : 90 It should now be done up to how many animals can be vaccinated in a single shed?

20 animals

20 animals

A

20 animals

20 animals

B

20 animals

20 animals

C

20 animals

20 animals

D

20 animals

Correct Ans : B

Q No : 91 Which of the following facts related to covered space of sheds for Young Stock is not true?

20-30 square feet per calf before the age of 3 months.

20-30 square feet per calf before the age of 3 months.

A

20-30 square feet per calf before the age of 3 months.

20-30 square feet per calf from the age of 3-6 months.

B

20-30 square feet per calf from the age of 3-6 months.

20-30 square feet per calf from the age of 3-6 months.

C

20-30 square feet per calf from the age of 3-6 months.

20-30 square feet for every calf above one year, should be made available.

D

20-30 square feet for every calf above one year, should be made available.

Correct Ans : C

5. Warnings and penalties of marriage
6. Difficulty in separation

40. On the night of 1948 it did not did all again after:

1. In an end there was part
2. 400
3. Took 100 at 4000 dollars
4. 100 100 dollars

Answered

A

400000
Tyranny

B

10 years
Starvation

C

100
Madness

D

100 100 dollars

Correct Ans : B

Q No. 71 The organized dairy sector (both co-operatives and private) is presently handling how much percentage of total milk production in the country?
2008433

under 10% the cooperative also that dairy when it has it goes down as there after there up to

10-12 percent

A

10-12 percent
10-17 percent

B

10-17 percent
20-32 percent

C

20-32 percent
20-30 percent

D

20-30 percent

Correct Ans : B

Q No. 72 Which of the following is not the Operating assessment methods of Mining Machine?
2008434

Machine it is also go to and with it and system 100 off to

Electricity's method

A

Electricity's method
Visual inspection

B

100 100
Manual drawing

C

100 100
Electronic circuit method

D

Electricity's method

Correct Ans. : B

Q No. 73 A centrifugal pump requires reaction for control (such that water in a tank (pump) at a speed of _____ revolutions per minute, depending on the model.

2005448

100 to 2000 rpm (range ratio is 10000) (but if) 10000 to 100000 rpm (range ratio is 10000) (but if) 10000 to 100000 rpm (range ratio is 10000) (but if)

1,000 to 1,000

A

1,000 to 1,000

1,000 to 10,000

B

1,000 to 10,000

1,000 to 1,000

C

1,000 to 1,000

1,000 to 1,000

D

1,000 to 1,000

Correct Ans. : B

Q No. 74 How many types of fuel for starting engines are there?

2005448

10000 to 100000 rpm (range ratio is 10000) (but if) 10000 to 100000 rpm (range ratio is 10000) (but if) 10000 to 100000 rpm (range ratio is 10000) (but if)

Three

A

Three

Four

B

Four

Five

C

Five

Six

D

Six

Correct Ans. : B

Q No. 75 In the charging process, the current is directly applied for four hours (such as to break down the 50% of the battery, leaving the 50% to be recharged into battery power, while 50% of the remaining (such as 50%) is recharged).

2005447

10000 to 100000 rpm (range ratio is 10000) (but if) 10000 to 100000 rpm (range ratio is 10000) (but if) 10000 to 100000 rpm (range ratio is 10000) (but if) 10000 to 100000 rpm (range ratio is 10000) (but if)

2-4 hrs

A

2-4 hrs

12-18 hrs

B

12-18 hrs

12-18 hrs

C

12-18 hrs

12-18 hrs

D

12-18 hrs

Correct Ans. : C

Q No. 76 Rechargeable battery is usually based on how many (such as 100000) (but if) 100000 to 100000 rpm (range ratio is 10000) (but if) 10000 to 100000 rpm (range ratio is 10000) (but if) 10000 to 100000 rpm (range ratio is 10000) (but if)

2008/09

When a capacitor is fully charged, the voltage across it is

75-77°C

A

75-77°C

82-88°C

B

82-88°C

95-98°C

C

95-98°C

82-88°C

D

82-88°C

Correct Ans : B

Q No: 77 Given expression is a phenomenon by which the motion repeated in a circle and the path by which force?

2008/09

the particle is following? Such particle the direction of the motion is the same for

Rotary force

A

rotary force

Centrifugal force

B

centrifugal force

Centrifugal force

C

centrifugal force

Centrifugal force

D

centrifugal force

Correct Ans : D

Q No: 78 The only clearing method of forest which is neither sustainable nor is it free from hazard?

2008/09

the only method of forest which is neither sustainable nor is it free from hazard?

Fire

A

fire

Fire

B

fire

Fire

C

fire

Fire

D

fire

Correct Ans : B

Q No: 79 At which temperature will GRT boiling?

2008/09

the temperature will GRT boiling?

A 30 °C

30 °C

35 °C

B

30 °C

60 °C

C

60 °C

90 °C

D

90 °C

Correct Ans : C

Q No. 90 What is the best temperature to can whole milk-based?

2008484

What is the best temperature to can whole milk-based?

25-27°C

A

25-25°C

18-20°C

B

18-20°C

10-12°C

C

10-12°C

13-15°C

D

13-15°C

Correct Ans : D

Q No. 91 What is the regulator for import and export of dairy products in India?

2008487

What is the regulator for import and export of dairy products in India?

Dairy Development Authority

A

Dairy Development Authority

Department of Agriculture and Farmers Welfare

B

Dairy Development Authority

Agricultural and Processed Food Products Export Development Authority

C

Dairy Development Authority

Department of Agriculture Research and Education

D

Dairy Development Authority

Correct Ans : B

Q No. 92 Kashi Dahi is a semi-fermented dairy product was developed by mixing between _____?

2008488

Kashi Dahi is a semi-fermented dairy product was developed by mixing between _____?

Kashi Dahi is a semi-fermented dairy product was developed by mixing between _____?

A. लाल कान और ब्रोम फेस

खाली और खोले

Redhead, Red Mouth and Brown Face

B.

खाली, लाल और खोले

Redhead and Reddish Face

C.

खाली और खोले फेस

Redhead and Reddish Face

D.

खोले और खोले-खोले

Correct Ans : B

Q No : 95 What is the horn-shaped portion of Murchie's?

2009498

खोले और खोले-खोले

Flat, short, slightly spirally curving forwards

A.

खोले, खोले, बड़े-बड़े और खोले-खोले

Flat and ridge shaped and horn back at the tip

B.

खोले और खोले-खोले

Small and curved slightly

C.

खोले और बड़े-बड़े

Curved slightly backwards

D.

बड़े-बड़े और खोले

Correct Ans : B

Q No : 96 Which of the following is a female fish?

2009499

Redhead and Red Mouth

Red

A.

Red

Redhead

B.

Redhead

Redhead

C.

Red

Red Mouth

D.

Red Mouth

Correct Ans : B

Q No : 97 Which type of soup should don't use white radish in daily use?

2009500

खोले और खोले-खोले

Fragment soup

A.

खोले और खोले-खोले

B.

Soup with antidiarrhoeal activity

કેન્સરનો સારવાર કે સર્જિકલ
Surgery with chemical treatment

A

સર્જિકલ પ્રકાર કે સર્જિકલ
Surgery with chemotherapy

B

કેન્સરનો સર્જિકલ
Surgery

Correct Answer : B

Q No. 86. What is the main element extracted from stone dust?

2005493

સર્જિકલ પ્રકાર કે સર્જિકલ પ્રકારનો સર્જિકલ
Surgery

A

સર્જિકલ પ્રકાર
Surgery

B

સર્જિકલ પ્રકાર
Surgery

C

સર્જિકલ પ્રકાર
Surgery

D

સર્જિકલ પ્રકાર
Surgery

Correct Answer : B

Q No. 87. When oil water is extracted from stone what is called?

2005493

સર્જિકલ પ્રકાર કે સર્જિકલ પ્રકારનો સર્જિકલ પ્રકાર
Surgery

A

સર્જિકલ પ્રકાર
Surgery

B

સર્જિકલ પ્રકાર
Surgery

C

સર્જિકલ પ્રકાર
Surgery

D

સર્જિકલ પ્રકાર
Surgery

Correct Answer : B

Q No. 88. About how much percent of city are window handle total production?

2005493

સર્જિકલ પ્રકાર કે સર્જિકલ પ્રકારનો સર્જિકલ પ્રકાર
Surgery

55-60%

A

55-60%

65-70%

B

65-70%

70-75%

70-75%

75-80%

D

75-80%

Correct Ans : B

Q No. 90 Which process is the important in dairy farm management?

2006498

जल वृद्धि और दूध की मात्रा में वृद्धि

Increase in yield and quality of milk

A

गर्भ की संख्या और गुण में वृद्धि

Increase in size of cattle

B

संतानों की संख्या में वृद्धि

Increase in the number of cubs

C

सर्पों की संख्या में वृद्धि

Increase in number of buffaloes

D

सर्पों की संख्या में वृद्धि

Correct Ans : A

Q No. 91 When does a calf start its estrus cycle?

2006498

एक सप्ताह गर्भपात के बाद

1 day after birth

A

एक दिन के बाद

1 days after birth

B

एक दिन के बाद

30 minutes after birth

C

एक दिन के बाद

10 hours after birth

D

एक दिन के बाद

Correct Ans : B

Q No. 92 Calf in green feed is concentrated feed.

2006498

एक दिन के बाद एक दिन के बाद

Blackquater

A

अमरग

Amlon

B

सर्प

Kashmir

C

सर्प

D

Kashmiri food

Review go

Correct Ans : B

Q No. 75 Foot and Mouth disease is caused by
2006020

ਅੰਗੂਰੀ ਫੁੱਲ ਅਤੇ ਮੂੰਹ ਦੇ ਰੋਗ ਕਿਸ ਦੁਆਰਾ ਪੈਦਾ ਹੁੰਦਾ ਹੈ ?

Bacteria

A

ਵੀਰਸ

Fungus

B

ਸੋਡ

Viruses

C

ਸੋਡ

Both Fungus and Bacteria

D

ਸੋਡ ਅਤੇ ਵੀਰਸ ਦੋਵੇਂ

Correct Ans : C

Q No. 76 Clostridium causes the disease in cattle that is
2006021

ਕਲੋਸਟ੍ਰੀਡਮ ਬੈਕਟੀਰੀਆ ਹੈ ਜੋ ਗਏ ਮੱਥੇ ਦੇ ਰੋਗ ਦਾ ਕਾਰਨ ਬਣਦਾ ਹੈ ?

Breastfest

A

ਬਰੈਸਟ

Acidosis

B

ਐਸਿਡ

Foot and Mouth

C

ਫੁੱਲ ਅਤੇ ਮੂੰਹ

Black leg

D

ਬਲੈਕ ਲੈਗ

Correct Ans : B

Q No. 78 Clostridia is a
2006022

ਕਲੋਸਟ੍ਰੀਡਮ ਇੱਕ

Bacterial disease

A

ਵੀਰਸ ਦਾ

Fungal disease

B

ਸੋਡ ਦਾ

Protozoan disease

C

ਬੈਕਟੀਰੀਆ ਦਾ

Viral disease

D

ਸੋਡ ਦਾ

Correct Ans : C

Proceed to next question

Q No. 96
200633

उत्तर दें

सूचित

A

सूचित

सूचित

B

सूचित

सूचित

C

सूचित

सूचित

D

सूचित

Correct Ans : B

Q No. 96
200634

उत्तर दें

सूचित

A

सूचित

सूचित

B

सूचित

सूचित

C

सूचित

सूचित

D

सूचित

Correct Ans : B

Q No. 97
200635

उत्तर दें

सूचित

A

सूचित

सूचित

B

सूचित

सूचित

C

सूचित

सूचित

D

सूचित

Correct Ans : B

Q No. 98
200636

उत्तर दें

A

सूचित

ring
fungus

B

ring
virus

C

ring
protists

D

cellular
bacteria

Correct Answer : A

Q No : 99 Which disease would show a microscopic examination of tissues and fluids for diagnosis?
2006328

Ring is the disease in which the microscopic examination of tissues and fluids for diagnosis

Black quarter

A

ring
ring

Ring and mouth

B

ring
ring

C

ring
ring

D

ring
ring

D

ring
ring

D

ring
ring

D

ring
ring

D

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D

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ring

D

ring
ring

D

ring
ring

D

ring
ring

D

ring
ring

D

☐

Gamma-ray

☐

☐

Alpha-ray and Gamma-ray

☐

None of the two

Correct Ans : B

Q No : 102 Which type of decay is characterized by emission of an alpha particle?

2004/18

The user is asked: Which decay is not if you will not emit an alpha particle?

Alpha decay

☐

Gamma decay

☐

Beta decay

☐

Alpha decay

Gamma decay

☐

Beta decay

Gamma decay

☐

Alpha decay

Correct Ans : B

Q No : 103 Which of the following is true with respect to radioactive decay?

2004/18

(A) It is a stochastic process.

(B) In radioactive decay, unstable atomic nucleus gives energy by ionization.

(C) In radioactive decay, unstable atomic nucleus takes energy by ionization.

(D) It takes place in a stable atomic nucleus.

The user is asked: Which of the following is true with respect to radioactive decay?

(A) It is a stochastic process.

(B) In radioactive decay, unstable atomic nucleus gives energy by ionization.

(C) In radioactive decay, unstable atomic nucleus takes energy by ionization.

(D) It takes place in a stable atomic nucleus.

Only (A)

☐

Only (A)

Only (A)

☐

Only (A)

Both (A) and (B)

☐

Both (A) and (B)

Both (A) and (B)

☐

Both (A) and (B)

Correct Ans : B

Q No : 104 Which of the following is true according to Bohr-Bury rules for distribution of electrons in different shells?

2004/18

When shell is empty it then is the shell itself is again forbidden if it also is not in

First shell takes no electron

A

एक शेल की शक्ति नहीं है

Electrons first occupy shell with lowest energy.

B

शक्ति वाले को पहले भरना है शेल की है

Rate of small shells remains constant after it is 3.

C

$n = 3$ के बाद शेल की दर समान रहती है

Second shell has energy $n = 2$ times of electron

D

दूसरा शेल $n = 2$ के बराबर है प्रथम 4 शेल की

Correct Ans : B

Q No : 107 Shell and its subshell electron take how many electrons ?

2004/08

शेल और शेल के उप शेल को कितने इलेक्ट्रॉन ले सकते हैं

not more than 22

A

22 से अधिक नहीं

not more than 18

B

18 से अधिक नहीं

not more than 8

C

8 से अधिक नहीं

not more than 10

D

10 से अधिक नहीं

Correct Ans : B

Q No : 108 What is the best reflective substance?

2004/07

A. Highly-reflective substance are quickly spent.

B. Not-best very white shiny reflective substances.

C. Not-best of silver reflective substance are in charge to corrosion.

किसी भी-किसी के प्रतिबिम्बक नहीं है

a. प्रतिबिम्बक को तब तक नहीं है

a. प्रतिबिम्बक के लिए किसी भी-किसी के प्रतिबिम्बक नहीं है

c. प्रतिबिम्बक को तब तक नहीं है

Only (A)

A

केवल (A)

Only (B)

B

केवल (B)

Only (C)

C

केवल (C)

Both (A) and (B)

D

दोनों (A) और (B)

Correct Ans : A

Q No : 107 According to Bohr's Model, electrons do not radiate energy as long as the nucleus, but exist in states of constant energy. What are these states known as ?
2004108

वेदों के अवस्था के अणु, प्रकाश उत्सर्जन और अवशोषण नहीं करते हैं, बल्कि स्थिर अवस्था में रहते हैं वे अवस्थाओं को वेदों के अवस्थाओं के रूप में जाना जाता है।

Excited state

A

उत्तेजित अवस्था

Stationary state

B

वेदों के अवस्था

Radiating state

C

उत्तेजित अवस्था

Excited state and Radiating state

D

उत्तेजित अवस्था के स्थिर अवस्था

Correct Ans : B

Q No : 108 Splitting of spectral lines in magnetic is called _____, while splitting of spectral lines in electric field is called _____ ?
2004109

प्रकाश की अवस्थाओं के विभाजन को _____ कहते हैं, प्रकाश की अवस्थाओं के विभाजन को _____ कहते हैं।

Zeeman effect, Stark effect.

A

Zeeman effect, Stark effect

Stark effect, Zeeman effect.

B

Zeeman effect, Stark effect

Radiation splitting, Field splitting.

C

Zeeman effect, Stark effect

Field splitting, radiation splitting.

D

Stark effect, Zeeman effect

Correct Ans : B

Q No : 109 What is true regarding hydrogen atom, according to Bohr's model ?
2004110

वेदों के अवस्था के अणु प्रकाश उत्सर्जन के अवस्था में रहते हैं।

It emits a single electron but its atomic spectrum consist of large number of lines.

A

प्रकाश उत्सर्जन करते हैं लेकिन प्रकाश उत्सर्जन के एक अवस्था में रहते हैं।

Its atomic spectrum consist of very few lines.

B

प्रकाश उत्सर्जन के अणु एक अवस्था में रहते हैं।

Its atomic spectrum consist of many lines.

C

प्रकाश उत्सर्जन के अणु एक अवस्था में रहते हैं।

Electron in hydrogen does not jump from lower energy states to higher energy states when subjected high temperature.

D

उच्च तापमान के अवस्था में रहते हैं अणु प्रकाश उत्सर्जन के अवस्था में एक अवस्था में रहते हैं।

Correct Ans : B

Q No : 110 Two atoms have 10 and 11 electron respectively, how many energy shell will be present in both with atom?
2004111

of wing shape: 1) 10:11, 11:12, 12:13, 13:14, 14:15, 15:16, 16:17, 17:18, 18:19, 19:20, 20:21, 21:22, 22:23, 23:24, 24:25, 25:26, 26:27, 27:28, 28:29, 29:30, 30:31, 31:32, 32:33, 33:34, 34:35, 35:36, 36:37, 37:38, 38:39, 39:40, 40:41, 41:42, 42:43, 43:44, 44:45, 45:46, 46:47, 47:48, 48:49, 49:50, 50:51, 51:52, 52:53, 53:54, 54:55, 55:56, 56:57, 57:58, 58:59, 59:60, 60:61, 61:62, 62:63, 63:64, 64:65, 65:66, 66:67, 67:68, 68:69, 69:70, 70:71, 71:72, 72:73, 73:74, 74:75, 75:76, 76:77, 77:78, 78:79, 79:80, 80:81, 81:82, 82:83, 83:84, 84:85, 85:86, 86:87, 87:88, 88:89, 89:90, 90:91, 91:92, 92:93, 93:94, 94:95, 95:96, 96:97, 97:98, 98:99, 99:100, 100:101, 101:102, 102:103, 103:104, 104:105, 105:106, 106:107, 107:108, 108:109, 109:110, 110:111, 111:112, 112:113, 113:114, 114:115, 115:116, 116:117, 117:118, 118:119, 119:120, 120:121, 121:122, 122:123, 123:124, 124:125, 125:126, 126:127, 127:128, 128:129, 129:130, 130:131, 131:132, 132:133, 133:134, 134:135, 135:136, 136:137, 137:138, 138:139, 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1295:1296, 1296:1297, 1297:1298, 1298:1299, 1299:1300, 1300:1301, 1301:1302, 1302:1303, 1303:1304, 1304:1305, 1305:1306, 1306:1307, 1307:1308, 1308:1309, 1309:1310, 1310:1311, 1311:1312, 1312:1313, 1313:1314, 1314:1315, 1315:1316, 1316:1317, 1317:1318, 1318:1319, 1319:1320,

Q No : 114
 3004183

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Q No : 115
 3004183

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Q No : 116
 3004183

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Q No : 117
 3004183

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Correct Answer : B

Step (A)

Only (B)

B

Step (B)

Only (C)

C

Step (C)

Both A and C

D

A, B or C only

Correct Ans : B

Q No. : 117. Choose correct statement regarding 'Gold number'.

2004184

Gold number is size of gold ions only.

Smaller the 'gold number' of a protective colloid, the greater is its protective action.

A

Gold number always is value less than one only, and gold number less than one is value only.

Smaller the 'gold number' of a protective colloid, smaller is its protective action.

B

As gold number always is 'less than one' only, and gold number less than one is value only.

Gold number is not related to protective action of a protective colloid.

C

Less the gold number always of gold number is value only.

Gold number is associated with size of colloidal particles.

D

Only the statement A and B are correct only.

Correct Ans : B

Q No. : 118. What is movement of molecules of dyes in colloidal solution under influence of an electric field, when colloidal particles are not allowed to move, called?

2004185

Diffusion is term is related with is applied only, on solution and not on solution only, and is, as applied to -

Electrophoresis

A

Aggregation

Electro-osmosis

B

Chemical reaction

Brownian movement

C

Diffusion

Reabsorption

D

Adsorption

Correct Ans : B

Q No. : 119. Some catalysts are considered as not chemically active portion of red, because of which reason?

2004186

A. Chemical structure of molecules involved.

B. Larger surface area.

C. Smaller surface area.

Effective always is high as catalyst and it also has effective area, because of -

A. Smaller surface of catalyst more

B. Not correct only

Q No : 120

Only (A)

A

Only (A)

Only (B)

B

Only (B)

Only (C)

C

Only (C)

Both (B) and (C)

D

(A) or (B) or

Correct Ans : D

Q No : 121 The catalyst which has proper property called?

2004200

or with the catalyst is used for

Refrigerator

A

Refrigerator

Refrigerator

B

Refrigerator

Refrigerator

C

Refrigerator

Organic chemistry

D

Refrigerator

Correct Ans : C

Q No : 122 What type of bond does the following of carbon bond?

2004200

with all of the following are used for

Covalent bond

A

Hydrogen bond

Hydrogen bond

B

Hydrogen bond

Hydrogen bond

C

Hydrogen bond

Metallic bond

D

Hydrogen bond

Correct Ans : A

Q No : 123 Which of the compound is the one that is used as a catalyst in the following reaction?

2004200

or with the catalyst is used for

Refrigerator

A

Refrigerator

11. **Metamorphic**

metamorphic

Metamorphic

12.

metamorphic

Metamorphic

13.

metamorphic

Correct Answer: **B**

Q No. 12.3 When two or more compounds possessing the same molecular formula but different structures are called:

2004208

are called isomers. When two or more compounds having the same molecular formula but different structures are called:

Isomerism

A

isomerism

Isomerism

B

isomerism

Metamorphic

C

isomerism

Chemistry

D

isomerism

Correct Answer: **B**

Q No. 12.4 Which species is not an electrolyte solution?

2004208

are all weak acids and bases.

H₂O

A

H₂O

H₂O

B

H₂O

H₂O

C

H₂O

NO₂

D

NO₂

Correct Answer: **C**

Q No. 12.5 Which of the following is a non-benzylic compound?

2004208

is a benzylic compound.

benzene

A

benzene

B

benzene

Answer

Answer

C

Light

Thompson

D

Light

Correct Answer: D

Q No : 126 If $a = 5$, $b = -2$ and $c = 4$ are three consecutive terms of an arithmetic progression, then find a .

2004480

all $a = 5$, $b = -2$ and $c = 4$ are three consecutive terms of an arithmetic progression, then find a .

5

B

5

5

D

5

5

D

5

5

D

5

Correct Answer: A

Q No : 127 In an AP the first term is 7 and the common difference is 2. Find the 10th term.

2004482

In an AP the first term is 7 and the common difference is 2. Find the 10th term.

35

A

35

35

D

35

37

C

37

39

D

39

Correct Answer: A

Q No : 128 Which term of the arithmetic progression $2, 5, 8, \dots$ is 100?

2004483

Which term of the arithmetic progression $2, 5, 8, \dots$ is 100?

35

A

35

35

D

35

37

C

37

Q No : 127

28

Correct Ans : B

Q No : 128 Find the 10th term of the arithmetic progression whose 4th term is 7 and whose 15th term is 71.

2004478

no answer left as correct 28, delete all answer as per the 2004478 as per the 2004478

28

A

30

32

B

34

36

C

38

40

D

42

Correct Ans : B

Q No : 129 The 10th term of an arithmetic progression is 15 times the fourth term of the series. Find the 11th term, if the 1st term is 2.

2004478

no answer left as correct 32, delete all answer as per the 2004478 as per the 2004478

32

A

34

36

B

38

40

C

42

44

D

46

Correct Ans : B

Q No : 130 If the sum of 17 terms of an arithmetic progression is 703, then find the middle term of the arithmetic progression.

2004478

all the answer left as correct 34, delete all answer as per the 2004478 as per the 2004478

34

A

36

38

B

40

42

C

44

46

D

48

Q No : 115 How many terms of the A.P. 2, 4, 6, ... must be taken so that the sum may be 100?

2004492

Answer (B) 2, 4, 6, ... is an A.P. the sum with this progression is

10

A

15

12

B

13

14

C

11

16

D

18

Correct Ans : B

Q No : 116 The sum of all two-digit numbers which leave a remainder of 3 when divided by 7.

2004493

Ans will be out of sequence the possible last 2 digit will be those 3, 10, 17

876

A

876

824

B

887

876

C

876

886

D

886

Correct Ans : C

Q No : 117 What is the arithmetic mean of the arithmetic progression 5, 7, 11, 15, 19, 23, 27, 31?

2004492

Answer (B) 5, 7, 11, 15, 19, 23, 27, 31 is an A.P. with 8 terms

18

A

16

17

B

17

19

C

19

14

D

13

Correct Ans : B

Q No : 118 The sum of the first 71 terms of an Arithmetic progression is 0. Which of the following terms must be 0?

2004493

12
4

B

8
24

C

20
28

D

36
38

Correct Answer : C

Q No. 142 If $a_1, a_2, a_3, \dots, a_n$ are in A.P. And $a_1 + a_8 + a_{15} = 15$, then $a_2 + a_5 + a_8 + a_{11} + a_{14}$ is equal to:
2004497

(b) $a_1, a_2, a_3, \dots, a_n$ are in A.P. If $a_1 + a_8 + a_{15} = 15$, then $a_2 + a_5 + a_8 + a_{11} + a_{14} =$

28

A

20
28

B

24
28

C

36
38

D

28
38

Correct Answer : B

Q No. 143 The 11th term of the series of the arithmetic progression whose 1st term, 10th term and common difference is 3, 211 and 7 respectively.
2004498

(b) series 1st is 3, 11th term of the series is 211, 10th term of the series is 211, 11th term of the series is

260

A

260
220

B

220
260

C

260
210

D

210
260

Correct Answer : C

Q No. 144 The 10th term and the seventh term of an arithmetic progression are 50 and 39 respectively. Find the twenty-third term of the series.
2004499

(b) series 10th term is 50, 7th term is 39, 10th term is 50, 23rd term is

$35\frac{1}{2}$

A

$35\frac{1}{2}$
38

B

38

Q No : 147 In a G.P. the first term is 1 and the common ratio is 2. What is the 8th term?

2004672

सुप्रथम शर्ति 1 होत असून 2 होत असल्याने 8 वेगवेगळे हो

32

A

32

256

B

256

128

C

128

64

D

64

Correct Ans : C

Q No : 148 Which term of the geometric progression 4, 4 $\sqrt{2}$, 8, is 96 $\sqrt{2}$?

2004673

सुप्रथम शर्ति 4, 4 $\sqrt{2}$, 8, या श्रेणीत कोणत्या शब्दाचे 96 $\sqrt{2}$ हो

8

A

8

9

B

9

10

C

10

12

D

12

Correct Ans : C

Q No : 149 If 40 and 100 term of A.P. are 2 and 8 respectively then the product of the 1st 40 term is

2004684

40 वे शर्ति सुप्रथम शर्ति 40 वे शब्दाचे 2 असून 100 वे शब्दाचे 8 असल्याने 40 शब्दांचा गुणकार हो

10^4

A

10^3

10^2

B

10^2

10^1

C

10^1

10^3

D

10^4

Correct Ans : C

Q No : 150

2004687 Find the area of sector of $\frac{3}{4}$ of a circle of radius 14 cm.

$$\frac{3}{4} \times \frac{3.14}{360} \times (14)^2 \times 90^\circ$$

A

2

B

3

C

4

5

6

D

7

8

9

E

10

11

Correct Ans : B

Q No : 151 Which law of Kepler is known as the law of equal velocity?

2004688

Area is the law of equality in an elliptical orbit

First Rule

A

Area Rule

Second Rule

B

Equal Rule

Third Rule

C

Equal Rule

Fourth Rule

D

Equal Rule

Correct Ans : B

Q No : 152 The value of escape velocity is how many times the value of orbital velocity?

2004689

Area is as velocity is in an elliptical orbit

2

A

3

 $\sqrt{2}$

B

 $\sqrt{2}$

3

C

2

D

 $\sqrt{2}$



Correct Ans : B

Q No. 152 Which option is not correct regarding change in the value of gravitational acceleration " g "?

2008079

गुरुत्व त्वरण " g " के मान में परिवर्तन में परिवर्तन के कारण में से असत्य कौन सा है?

The value of g decreases on going up or down from the surface of the earth.

A

गुब्बारी काग के ऊपर या नीचे जाने पर g का मान घटता है।

The value of " g " is maximum at the pole of the earth.

B

" g " का मान अधिकतम ध्रुवीय रेखा (pole) पर होता है।

The value of " g " is minimum at equator.

C

" g " का मान अधिकतम विषुव रेखा (equator) पर होता है।

The value of " g " increases as the rotational speed of the earth increases.

D

गुब्बारी घूर्णन की गति का " g " का मान बढ़ाता है।

Correct Ans : B

Q No. 153 On which of the following quantities does the time period of a simple pendulum depend?

2008079

सरल लोलक का समय (T) निम्नलिखित में से किस पर निर्भर करता है?

Length of the pendulum and mass of the object

A

लोलक की लंबाई और द्रव्यमान

Length of the pendulum and gravitational acceleration

B

लोलक की लंबाई और गुरुत्वाकर्षण

Gravitational acceleration and mass of the object

C

गुरुत्व त्वरण और द्रव्यमान

Length of the pendulum, gravitational acceleration and mass of the object

D

लोलक की लंबाई, गुरुत्व त्वरण और द्रव्यमान

Correct Ans : B

Q No. 155 The period of revolution of a satellite does not depend on which of the following?

2008079

उपग्रह का परिक्रमण काल (T) निम्नलिखित में से किस पर निर्भर नहीं करता है?

Orbital Velocity

A

वर्तुल गति

Circumference of the orbit

B

वर्तुल गति

Height above earth level

C

पृथ्वी से ऊंचाई

Mass of the satellite

D

उपग्रह का द्रव्यमान

Correct Ans : D

Q No. 156 Which of the following statement is not correct?

2008079

The Kalam as seen with light is :

When the lift goes up, the apparent weight of the person is more than the actual weight.

A

जब लिफ्ट ऊपर की ओर जाती है तो व्यक्ति का अंशुली उस व्यक्ति का वजन से कम होता है।

When the lift goes down, the apparent weight of the person is less than the actual weight.

B

जब लिफ्ट नीचे की ओर जाती है तो व्यक्ति का अंशुली उस व्यक्ति का वजन से कम होता है।

Egyle's third law is also called the law of time period.

C

ब्रह्मांड के ग्रहों के चारों ओर सूर्य के चारों ओर घूमते हैं।

Each planet revolves around the Sun in a similar direction.

D

जबकि जब धूम्र के बल से चारों ओर घूमते हैं तो घूमते हैं।

Correct Answer : D

Q No : 107 Which of the following statements regarding the viscosity of liquids is not correct?

2008078

The viscosity of liquids decreases with increase in temperature.

The viscosity of liquids decreases with increase in temperature.

A

जब तापमान बढ़ता है तो द्रव्यमान बढ़ता है।

The viscosity of an ideal liquid is zero.

B

जब तापमान बढ़ता है तो द्रव्यमान बढ़ता है।

Viscosity of gases decreases with increase in temperature.

C

जब तापमान बढ़ता है तो द्रव्यमान बढ़ता है।

The rate of viscosity is larger in gases than in liquids.

D

समस्याओं की हल करने के लिए हमें सही दिशा में चलना चाहिए।

Correct Answer : C

Q No : 108 According to which of the following laws, the fact of the total energy per unit volume (ie. pressure, potential energy and kinetic energy remains constant) at every pt in the path of the liquid?

2008077

The Kalam as seen with light is not in the lift as the person moves at the same speed as the lift, and the lift is not in the lift as the lift is not in the lift.

Bernoulli's Principle

A

जबकि जब लिफ्ट ऊपर जाती है तो द्रव्यमान बढ़ता है।

Pascal's Law

B

जबकि जब लिफ्ट ऊपर जाती है तो द्रव्यमान बढ़ता है।

Archimedes' Principle

C

जबकि जब लिफ्ट ऊपर जाती है तो द्रव्यमान बढ़ता है।

Hooke's Law

D

जबकि जब लिफ्ट ऊपर जाती है तो द्रव्यमान बढ़ता है।

Correct Answer : A

Q No : 109 Which of the following examples is based on "Bernoulli's principle"?

2008076

The Kalam as seen with light is not in the lift as the person moves at the same speed as the lift, and the lift is not in the lift.

8) निम्नलिखित में से सही चुनिए।

द्रव का घनत्व

Relative Density of Liquids

9)

वायुमंडलीय आर्द्रता

Atmospheric Humidity

10)

वैकृतिक दबाव

Correct Ans. - B

Q No. : 103 Hydrometer instrument is used to measure _____

2008043

द्रव का घनत्व _____ को भी कहते हैं।

Viscosity of Liquids

A

द्रव की सतह

Surface tension of Liquids

B

द्रव का घनत्व

Relative Density of Liquids

C

वायुमंडलीय आर्द्रता

Atmospheric Humidity

D

वैकृतिक दबाव

Correct Ans. - C

Q No. : 104 Which statement is not correct regarding relative density?

2008043

द्रव का घनत्व हमेशा 4 डिग्री सेल्सियस पर लेते हैं।

In all the calculations of relative density, the density of water is taken at 4 degrees only.

A

द्रव का घनत्व हमेशा 4 डिग्री सेल्सियस पर लेते हैं।

The density of water is measured at 4 degrees.

B

4 डिग्री सेल्सियस पर पानी का घनत्व अधिक होता है।

The volume of water is maximum at 4 degrees.

C

4 डिग्री सेल्सियस से कम तापमान पर पानी का घनत्व कम होता है।

Density of water decreases when it goes below 4 degrees.

D

4 डिग्री सेल्सियस पर पानी का घनत्व अधिक होता है।

Correct Ans. - B

Q No. : 105 All members found in the kingdom Archaebacteria are _____ organisms.

2008013

मल्टीसेल्यूलर जीवों में से कौन सा जीव है?

Multicellular

A

एकसेल्यूलर

Unicellular

B

एकसेल्यूलर

Unicellular

C

मल्टीसेल्यूलर

Multicellular

OpenBook

Cellular

00

00000

Correct Ans : A

Q No : 108 What countries are the great producers of honey in the world but the highest producer is

2006/11/1

उद्योगों के उत्पादन में सबसे अधिक देश है

हॉलैंड

A

USA

Mexico

B

Germany

China

C

India

St. Lucia

D

Spain

Correct Ans : C

Q No : 107 Which type of circulatory system is found in cockroach?

2006/11/1

कोकरो में किस प्रकार का रक्तचक्र पाया जाता है?

Closed circulatory system

A

Open circulatory system

Open circulatory system

B

Both open and closed circulatory system

Both open and closed circulatory system

C

Neither open nor closed circulatory system

Neither open nor closed circulatory system

D

None of the above

Correct Ans : B

Q No : 106 What is the number of dynasties found in the ancient England?

2006/11/1

प्राचीन इंग्लैंड में कितनी राजवंशों का शासन था?

One

A

Two

Two

B

Three

Three

C

Four

Four

D

Five

Correct Ans : B

Q.No. : 164 The largest phylum in the animal kingdom is _____

2006/137

जगत् में सबसे बड़ा _____ है।

आमिबी

A

पक्षी

अर्थोपेडा

B

मेलिडा (पतंग)

मोलुस्का

C

कृमी

चूनेदार

D

पक्षी

Correct Ans : B

Q.No. : 175 The country which is capable to produce all the 5 types of commercial silk is

2006/138

जहाँ 5 प्रकार के सिल्क बनाने में सक्षम हैं वह देश निम्न में से है।

चीना

A

ईरान

इटली

B

जपान

फ्रांसिस

C

ऑस्ट्रेलिया

नेपाल

D

रूस

Correct Ans : B

Q.No. : 177 The most basic part which is not included under cellular part.

2006/139

जो अंग निम्न में से शामिल नहीं है, उसे कोशिका का हिस्सा नहीं माना जाता है।

लगा

A

रक्त

क्यूटिकल

B

ग्रन्थि (ग्लैंड्स)

सिलेमा

C

पेशाब

थ्रैसा

D

पेशाब

Correct Ans : B

Q.No. : 177 Manipulative tools are the invention of phylum chordata and class _____

2006/140

తెలుగులో వాక్య నిర్మాణం ఎలా ఉంటుంది?

Subject

A

Object

Verb

B

Verb

Modifier

C

Object

Subject

D

Verb

Correct Answer : D

Q No : 173 _____ Type of reproductive system is found in earthworm.

2006-213

తెలుగులో _____ వాక్య నిర్మాణం ఉంటుంది?

Subject

A

Object

Verb

B

Verb

Modifier

C

Verb

Modifier

D

Object

Correct Answer : D

Q No : 174 Third Generation Family Relationship refers to _____.

2006-213

తల్లి మరియు తండ్రి ముగ్గురు _____ వంశీకులు.

Maternal grandmothers

A

Paternal grandmothers

Both maternal grandmothers

B

Paternal grandmothers

Maternal grandmothers

C

Paternal grandmothers

Both maternal grandmothers

D

Paternal grandmothers

Correct Answer : E

Q No : 175 State Agency for Insuring Deposit Period of 5000 is _____.

2006-213

వాణిజ్య బ్యాంకులకు నిధి నిల్వ ఉపయోగం ఉన్నప్పుడు _____.

Commercial Bank

A

Commercial Bank

B

BRADY (Barbat)

qetqetqet (Barbat)

BRADY (Barbat)

0

qetqetqet (Barbat)

BRADY (Barbat)

0

qetqetqet (Barbat)

Correct Ans : **B**

Q No : 176 In which class green glands are present?

2008/148

qetqetqet (Barbat)

Arachnida

A

qetqetqet

Chelicerata

B

qetqetqet

Chelicerata

C

qetqetqet

Chelicerata

D

qetqetqet

Correct Ans : **B**

Q No : 177 Class Insecta (Hexapoda) belong to the _____ subphylum.

2008/148

qetqetqet (Barbat) _____, _____, _____

Arachnida

A

qetqetqet

Chelicerata

B

qetqetqet

Chelicerata

C

qetqetqet

Chelicerata

D

qetqetqet

Correct Ans : **B**

Q No : 178 Who proposed the broad classification of Animal Kingdom?

2008/148

qetqetqet (Barbat) _____, _____, _____

Arachnida

A

qetqetqet

Arachnida

B

qetqetqet

Arachnida

C

Arachnida

अथवा
किसी

B

अथवा

Correct Ans : C

Q No : 175 This compound is again found in Asterisks it _____

2006/17

अथवा इसमें यह कि यह कि _____ है

Both large

A

यह कि कि

Trachea

B

अथवा

Cuticle

C

यह कि

Both Both large and Trachea

D

यह कि कि कि कि कि कि

Correct Ans : B

Q No : 176 Name the biggest insect?

2006/18

अथवा कि कि कि कि कि कि

Great Atlas Beetle

A

Desert cockroach

Colobus beetle

B

अथवा कि

Desert locust

C

अथवा कि

Leishman

D

अथवा

Correct Ans : A

Q No : 182 Which species of the produce maximum silk

2006/19

अथवा कि कि कि कि कि कि कि कि कि कि

Bombyx

A

अथवा

Bom

B

अथवा

Rajasthan

C

अथवा

Madhya Pradesh

D

अथवा

Correct Ans : A

Q No. : 182. Table cloths are usually covered by

2006/182

- ☐ A. **white linen (Placemat/Placemat fabric)**
- ☐ B. **dark or polychrome fabric**
Decorative fabrics (Decorative fabrics)
- ☐ C. **white cloth (white fabric)**
Oil cloth (Decorative fabrics)
- ☐ D. **oil and (white or, etc)**
Oil cloth
- ☐ E. **oil cloth**

Correct Ans : A

Q No. : 183. Name the fabric which produces the oil cloth

2006/183

- ☐ A. **linen**
Decorative
- ☐ B. **oil cloth**
Decorative
- ☐ C. **oil cloth**
Decorative fabrics
- ☐ D. **oil cloth**
Decorative
- ☐ E. **oil cloth**
Decorative

Correct Ans : A

Q No. : 184. Name the representative product of the

2006/184

- ☐ A. **oil cloth (oil cloth) or oil cloth**
Black money of the (Polychrome fabrics)
- ☐ B. **oil cloth (oil cloth) or oil cloth**
White money of the (Polychrome fabrics)
- ☐ C. **oil cloth (oil cloth) or oil cloth**
Green money of the (Polychrome fabrics)
- ☐ D. **oil cloth (oil cloth) or oil cloth**
Red money of the (Polychrome fabrics)
- ☐ E. **oil cloth (oil cloth) or oil cloth**
Red money of the (Polychrome fabrics)

Correct Ans : A

Q No. : 185. Name the first model of the

2006/185

cell efflux pump activity with:

Tetracycline

A

Trimethoprim

Levofloxacin

B

Rifampin

Amphotericin

C

Clotrimazole

Metronidazole

D

Vancomycin

Correct Answer: A

Q No: 106 What is the scientific name of black mold?

2006/10/6

Uromyces diglycyrrhizae

Ascomycota gregaria

A

Aspergillus niger

Ascomycota nigrescens

B

Pyrenopeziza

Ascomycota purpurea

C

Pyrenopeziza purpurea

Ascomycota purpurea

D

Pyrenopeziza

Correct Answer: A

Q No: 107 What is the father of modern computing in India?

2006/10/6

Dr. B. V. Raghavan (1913-1997)

L. J. Langford

A

Dr. B. V. Raghavan

A. S. Raghavan

B

Dr. B. V. Raghavan

A. S. Raghavan

C

Dr. B. V. Raghavan

Dr. B. V. Raghavan

D

Dr. B. V. Raghavan

Correct Answer: A

Q No: 108 How much sugar is present in honey?

2006/10/6

80% to 90%

85%

A

85%

80%

B 78%

78%

54%

C

34%

22%

D

22%

Correct Ans : **B**

Q No : 189 Subbrand's origin is present in _____?

2006/17

where an the _____ is also the fr

Shape

A

18%

Product

B

55%

Color

C

48%

Trademark

D

08%

Correct Ans : **B**

Q No : 190 Logo placed in

2006/18

top left fr

Levi's® Brand

A

50% Brand

Barclays Bank

B

45% 1st

Barclays Group

C

40% 2nd

Levi's® Brand

D

50% Brand

Correct Ans : **A**

Q No : 191 What is the value of Mitsubishi premium at one level?

2006/19

approximately 100 million dollars fr

2000.00 million

A

2000.00 million

1000.00 million

B

1000.00 million

Q No : 190 **2000000****0011.26 (100%)****0076.26 (100%)**

A

0076.26 (100%)

Correct Ans : B

Q No : 192 What is the correct relation between the units of atmospheric pressure "bar" and "pascal"?

20000001 bar is equal to 10⁵ pascal1 bar = 10⁵ pascal

A

1 bar = 10⁵ pascal1 bar = 10⁵ pascal

B

1 bar = 10⁵ pascal1 bar = 10⁵ pascal

C

1 bar = 10⁵ pascal1 bar = 10⁵ pascal

D

1 bar = 10⁵ pascal

Correct Ans : B

Q No : 193 Pascal, the unit of atmospheric pressure, is equal to how many newtons per square meter?

2000000

1 newton per square meter

1 newton per square meter

A

1 newton per square meter

10⁵ newtons per square meter

B

10⁵ newtons per square meter10⁵ newtons per square meter

C

10⁵ newtons per square meter10⁵ newtons per square meter

D

10⁵ newtons per square meter

Correct Ans : A

Q No : 194 Which of the following quantities is measured by barometer?

2000000

Atmospheric pressure

Atmospheric pressure

A

Atmospheric pressure

11. **Water Pressure**

Q106

Pressure less than atmospheric pressure

12.

Atmospheric Pressure

Density of Liquid

13.

Q107

Correct Ans : B

Q No : 106. The principle of working in aneroid barometer.....?

3000047

एनेरोइड बारोमीटर के कार्य में निम्नलिखित सिद्धांत का उपयोग किया जाता है.....?

At higher altitudes the atmospheric pressure increases.

A

उच्च ऊँचाई पर वायुमंडलीय दबाव बढ़ता है।

At higher altitudes the atmospheric pressure decreases.

B

उच्च ऊँचाई पर वायुमंडलीय दबाव घटता है।

The acceleration due to gravity decreases at higher altitudes.

C

उच्च ऊँचाई पर गुरुत्वाकर्षण घटता है।

The density of the air decreases at higher altitudes.

D

उच्च ऊँचाई पर वायु की घनत्व घटता है।

Correct Ans : B

Q No : 106. Which of the following statements regarding atmospheric pressure is not correct?

3000048

वायुमंडलीय दबाव के संबंध में निम्नलिखित में से कौन सा कथन सही नहीं है?

Barometer is used to measure atmospheric pressure.

A

बारोमीटर वायुमंडलीय दबाव को मापने के लिए उपयोग किया जाता है।

Barograph is used to record atmospheric pressure.

B

बार्ोग्राफ वायुमंडलीय दबाव को रिकॉर्ड करने के लिए उपयोग किया जाता है।

The value of atmospheric pressure increases when you go higher than the earth level.

C

पृथ्वी की सतह से ऊपर जाने पर वायुमंडलीय दबाव में वृद्धि होती है।

There is a possibility of storm or storm due to sudden decrease in air pressure at certain place.

D

किसी स्थान पर तूफान की संभावना है क्योंकि वहाँ पर वायुमंडलीय दबाव में अचानक गिरावट आती है।

Correct Ans : C

Q No : 107. The flow of air is?

3000049

वायु का प्रवाह होता है।

From low air pressure to high air pressure

A

निम्न वायु दबाव से उच्च वायु दबाव की ओर।

From high air pressure to low air pressure

B

उच्च वायु दबाव से निम्न वायु दबाव की ओर।

C

From low air density to high air density

Highly dense to low dense to low
From high air density to low air density

B

Low dense to high dense to low

Correct Answer : B

Q No : 198
2008071 Which one of the following action is not correct regarding the intensity of the electric field?

Highs die of dies to dies to die it is also as dies to die to

The force acting on a unit positive charge located at any point in the electric field is called the electric field intensity.

A

Highs die of dies to die to die to die to dies to die to dies to die to

The electric field intensity of a hollow sphere is infinite.

B

Highs die of dies to dies to die to die to dies to die to

When a hollow sphere is charged, the entire charge remains on the surface of the sphere.

C

Highs die of dies to dies to die to die to dies to die to

The hollow sphere acts as an electrostatic shield.

D

Highs die of dies to dies to die to die to dies to die to

Correct Answer : B

Q No : 199
2008072 Which one of the following action is not correct regarding the capacitance of the object?

Highs die of dies to dies to die to die to dies to die to

The capacitance of the capacitor increases by increasing the area of the capacitor plates.

A

Highs die of dies to dies to die to die to dies to die to

The capacitance of the capacitor decreases as the distance between the capacitor plates decreases.

B

Highs die of dies to dies to die to die to dies to die to

Capacitor The capacitance of a capacitor increases when a medium of high dielectric constant is placed between the plates of the capacitor.

C

Highs die of dies to dies to die to die to dies to die to

Use of Capacitor

D

Highs die of dies to dies to die to die to dies to die to

Correct Answer : D

Q No : 200
2008073 The capacitance of a capacitor does not depend on which of the following quantities?

Highs die of dies to dies to die to die to dies to die to

On the area of the plates

A

Highs die of dies to dies to die to die to dies to die to

At the distance between the plates

B

Highs die of dies to dies to die to die to dies to die to

On the material of the plates

C

Highs die of dies to dies to die to die to dies to die to

On the medium between the plates

D

Exam

Test Name

10/Nov/2021

Test Mode

[Auto A/B]

Student ID

Q No. : 1

2000011

Choose statement for-

$$A + B \neq C + D$$

with the next qn -

$$A + B \neq C + D$$

$$\text{in equation, } Q = A \& Q = \left[\frac{C+D}{A+B} \right]$$

A

$$\text{Statement Q} = A \& Q = \left[\frac{C+D}{A+B} \right]$$

$$\text{in equation, } Q = -A \& Q = \left[\frac{C+D}{A+B} \right]$$

B

$$\text{Statement Q} = -A \& Q = \left[\frac{C+D}{A+B} \right]$$

$$\text{in equation, } Q = \frac{1}{A} \& Q = \left[\frac{A+B}{C+D} \right]$$

C

$$\text{Statement Q} = \frac{1}{A} \& Q = \left[\frac{A+B}{C+D} \right]$$

$$\text{in equation, } Q = \frac{-1}{A} \& Q = \left[\frac{A+B}{C+D} \right]$$

D

$$\text{Statement Q} = \frac{-1}{A} \& Q = \left[\frac{A+B}{C+D} \right]$$

Correct Answer : A

Q No. : 2

2000018

In the manufacture of soda ash, _____, by _____ of CaCO_3 , the gaseous CO_2 is absorbed in solution.

विलयन में CaCO_3 के _____ द्वारा, जहाँ CO_2 को अवशोषित किया जाता है।

CaO , combination

A

CaO , union

CaOH , decomposition

B

CaOH , union

CaO , decomposition

C

CaO , union

Q. **Correct combination****Correct Answer**

Correct Ans : B

Q No. 3 In a mixture of acid and base, conduct is _____ if N_1/V_1 (acid) > N_2/V_2 (base).

Answer: B

$$\rightarrow \frac{N_1 F_1 - N_2 F_2}{F_1 + F_2}$$

जब दो अम्ल व बेस का मिश्रण है, तब इसका _____ होता है यदि N_1/V_1 (acid) > N_2/V_2 (base).

$$\rightarrow \frac{N_1 F_1 - N_2 F_2}{F_1 + F_2}$$

$$\text{zero, } [OH^-]$$

A

$$\text{zero, } [OH^-]$$

$$\text{zero, } [H_3O^+]$$

B

$$\text{zero, } [H_3O^+]$$

$$\text{zero, } [H_3O^+]$$

C

$$\text{zero, } [H_3O^+]$$

$$\text{zero, } [OH^-]$$

D

$$\text{zero, } [OH^-]$$

Correct Ans : B

Q No. 4 In a mixture of acid and base, conduct is _____ if N_1/V_1 (base) > N_2/V_2 (acid) _____.

Answer: B

$$\rightarrow \frac{N_1 F_1 - N_2 F_2}{F_1 + F_2}$$

जब दो अम्ल व बेस का मिश्रण है, तब इसका _____ होता है यदि N_1/V_1 (base) > N_2/V_2 (acid) _____.

$$\rightarrow \frac{N_1 F_1 - N_2 F_2}{F_1 + F_2}$$

$$\text{zero, } [OH^-]$$

A

$$\text{zero, } [OH^-]$$

$$\text{zero, } [H_3O^+]$$

B

$$\text{zero, } [H_3O^+]$$

$$\text{zero, } [H_3O^+]$$

C

$$\text{zero, } [H_3O^+]$$

D

$$\text{zero, } [H_3O^+]$$

$$\lim_{x \rightarrow 0} \left[\frac{1}{x^2} \right]$$

$$\lim_{x \rightarrow 0} \left[\frac{1}{x^2} \right]$$

Correct Ans : B

Q No. 8 Choose correct option:-

20060228

(i) Identity class	(iv) $C_n(x)$ and C_n (is solution)
(ii) Identity	(v) $H_n(x)$ and $H_n(x)$
(iii) $\lim_{x \rightarrow 0} \left[\frac{1}{x^2} \right]$	(vi) $\lim_{x \rightarrow 0} \left[\frac{1}{x^2} \right]$ and $\lim_{x \rightarrow 0} \left[\frac{1}{x^2} \right]$

सही विकल्प चुनें:

(i) Identity class	(iv) $C_n(x)$ and C_n (is solution)
(ii) Identity	(v) $H_n(x)$ and $H_n(x)$
(iii) $\lim_{x \rightarrow 0} \left[\frac{1}{x^2} \right]$	(vi) $\lim_{x \rightarrow 0} \left[\frac{1}{x^2} \right]$ and $\lim_{x \rightarrow 0} \left[\frac{1}{x^2} \right]$

(i)	(ii)	(iii)
a	b	c

A

(i)	(ii)	(iii)
a	b	c

(i)	(ii)	(iii)
b	c	a

B

(i)	(ii)	(iii)
b	c	a

(i)	(ii)	(iii)
a	b	c

C

(i)	(ii)	(iii)
a	b	c

(i)	(ii)	(iii)
b	a	c

D

(i)	(ii)	(iii)
b	a	c

Correct Ans : B

Q No. 9 Is given equation

20060228

Is given equation $K_1 \left[\frac{1}{x^2} \right] = K_2 \left[\frac{1}{x^2} \right]$, choose correct statement regarding K_1 and K_2 .

ਇਹ ਦਿੱਤਾ ਗਿਆ ਹੈ $K_p[A][B] = K_c[C][D]$ । ਘੱਟ ਗਤੀ ਨਾਲ ਹੋ ਰਿਹਾ ਹੈ K_c ਅਤੇ K_p ।

At constant temperature, K_p and K_c are constant.

A

ਇਹ ਦਿੱਤਾ ਗਿਆ ਹੈ K_p ਅਤੇ K_c (ਸਥਿਰ)।

At constant temperature, K_p is constant, K_c is variable.

B

ਇਹ ਦਿੱਤਾ ਗਿਆ ਹੈ K_c (ਸਥਿਰ) ਅਤੇ K_p (ਬਦਲਦੀ)।

At constant temperature, K_c is constant but K_p is variable.

C

ਇਹ ਦਿੱਤਾ ਗਿਆ ਹੈ K_c (ਸਥਿਰ) ਅਤੇ K_p (ਬਦਲਦੀ)।

At constant temperature both K_p and K_c varies.

D

ਇਹ ਦਿੱਤਾ ਗਿਆ ਹੈ K_c ਅਤੇ K_p (ਦੋਵਾਂ ਹੀ ਸਥਿਰ)।

Correct Answer : A

Q No. 7
20060315 $K_p = K_c(P)^{\Delta n}$

Choose correct statement regarding Δn

- (i) $\Delta n = 0$
(ii) $\Delta n = 1$
(iii) it can not be zero
(iv) it can be zero

$K_p = K_c(P)^{\Delta n}$

ਅੰਕ ਇਹ ਹੈ ਹੇਠ ਲਿਖੇ ਗਏ ਹਨ।

- (i) $\Delta n = 0$
(ii) $\Delta n = 1$
(iii) ਨਹੀਂ ਹੋ ਸਕਦਾ
(iv) ਹੋ ਸਕਦਾ ਹੈ

(i) and (iii)

A

(i) ਅਤੇ (iii)

(i) and (iv)

B

(i) ਅਤੇ (iv)

(ii) and (iv)

C

(ii) ਅਤੇ (iv)

(ii) and (iv)

D

(ii) ਅਤੇ (iv)

Correct Answer : A

Q No. 8
20060315

Classical thermodynamics

In reaction, $\text{CaC}_2(\text{s}) \rightleftharpoons \text{CaO}(\text{s}) + \text{C}_2(\text{g})$

$$K = \frac{[\text{CaO}(\text{s})][\text{C}_2(\text{g})]}{[\text{CaC}_2(\text{s})]}$$

(i) $\text{CaO}(\text{s}) = 1$

(ii) $\text{C}_2(\text{g}) = 1$

(iii) $\text{CaC}_2(\text{s}) = 1$

सही विकल्प चुनें:

प्रतिक्रिया में $\text{CaC}_2(\text{s}) \rightleftharpoons \text{CaO}(\text{s}) + \text{C}_2(\text{g})$

$$K = \frac{[\text{CaO}(\text{s})][\text{C}_2(\text{g})]}{[\text{CaC}_2(\text{s})]}$$

(i) $\text{CaO}(\text{s}) = 1$

(ii) $\text{C}_2(\text{g}) = 1$

(iii) $\text{CaC}_2(\text{s}) = 1$

Only (i)

A

Only (ii)

Only (iii)

B

Both (ii) and (iii)

Only (iii)

C

Both (ii) and (iii)

Both (i) and (ii)

D

Both (ii) and (iii)

Correct Answer : B

Q No : 9 Effect is unit of rate of a chemical reaction?

20060208

संकेतित शब्दों में ऊ से नीचे का सही विकल्प चुनें

Energy per mole

A

एनर्जी पर मोल

Energy consumed per mole

B

एनर्जी का उपयोग प्रति मोल

Molarity per second

C

एनर्जी का प्रति सेकंड

Volume of gas per unit time

D

एनर्जी का प्रति सेकंड प्रति मोल

Correct Answer : B

Q No : 10 Effect of temperature on rate constant of reaction is -

20060210

graph shows the effect of an increase in β is:

Decreases

A

up

Decreases

B

up

Decrease down

C

up up

Firstly increases then decreases

D

up up then no up

Correct Ans : A

Q No. 11
2006279 A first order reaction takes 40 min for 10% decomposition. What is $t_{1/2}$?

प्रथम कोटि की अभिक्रिया में 40% अपघटन में 40 मिनट का समय लगता है। $t_{1/2}$ क्या है?

87.2 min

A

87.2 min

88.2 min

B

88.2 min

77.2 min

C

77.2 min

87 min

D

87 min

Correct Ans : C

Q No. 12
2006288 Exact representation of Arrhenius equation is -

exact relation is like Arrhenius -

$k = Ae^{-E_a/RT}$

A

$k = Ae^{-E_a/RT}$

$k_{12} = Ae^{-E_a/RT}$

B

$k_{12} = Ae^{-E_a/RT}$

$k = Ae^{-E_a/RT}$

C

$k = Ae^{-E_a/RT}$

$k = 0.35RT \ln(MN)$

D

$k = 0.35RT \ln(MN)$

Correct Ans : A

Q No. 13
2006289

A radioactive element has decay constant $6.93 \times 10^{-4} \text{ sec}^{-1}$. Its life period in seconds is

as (Round your answer to the nearest integer, i.e. $\times 10^{-1}$ sec $\rightarrow$ after $\frac{1}{10}$ divide it given above unit).

90

A

90

100

B

200

100

C

100

100

D

120

Correct Ans : B

Q No. : 18

2007108

What is the disintegration rate of 10 mg of $^{90}_{28}\text{Sr}$ (average $t_{1/2}$ of $^{90}_{28}\text{Sr}$ is 28 years)

(a) Disintegration rate of $^{90}_{28}\text{Sr}$ is $1.57 \times 10^{12} \text{ s}^{-1}$ (b) $t_{1/2}$ of $^{90}_{28}\text{Sr}$ is 28 yr

1.57×10^{12}

A

1.87×10^{12}

1.9×10^{12}

B

1.9×10^{12}

2.5×10^{10}

C

2.5×10^{10}

2.9×10^{10}

D

2.9×10^{10}

Correct Ans : B

Q No. : 19

2007101

Choose the correct statements.

(I) $\text{e}^- + \text{e}^+ \rightarrow \gamma + \gamma$ is an annihilation reaction.

(II) Tritium has a half life of 12.5 y and giving β -decay $\frac{1}{8}$ of a sample of pure tritium will remain undecayed after 37.5 y.

(III) The $t_{1/2}$ of $^{137}_{55}\text{Cs}$ undergoing β -decay is 6.5×10^3 y. Then $(2.0 \times 10^5 \text{ s})$ is the activity of 1 g sample of $^{137}_{55}\text{Cs}$.

all are right

Q No : 18 What are the total number of orbitals associated with $n=1$ and $n=2$?

2007617

$n=1$ orbit has 1 s orbital (total) $n=2$ has 4 orbitals

4,3

A

4,2

3,3

B

3,2

1,10

C

1,10

2, 14

D

2,10

Correct Ans : E

Q No : 19 Choose correct statement with respect to orbitals

2007618

Orbitals (p-orbitals) is like a gift wrap gift

Orbitals and orbitals are symmetrical

A

are like wrap around gift

They have circular shape

B

are three times π gift

Characterized by set of three quantum numbers

C

of the atom must be in a unit gift

It is possible to find exact location and velocity of an electron in an orbital.

D

are orbitals if shape of the orbitals is in a unit gift

Correct Ans : E

Q No : 20 Dependence of Debye point (DT) for ideal solution is directly proportional to _____.

2008010

DT is directly proportional to _____ $\propto$ $\frac{1}{\text{molar volume}}$

Molarity

A

Mass

Molarity

B

Mass

Molecular volume

C

Mass

Concentration

D

Mass

Correct Ans : A

Q No : 21 Choose the correct option in reference with factors responsible for all the colligative properties:

6.18 M

Correct Ans : D

Q No : 38

2000K18

The reduction potential at 25°C for $\text{Fe}^{3+}/\text{Fe}^{2+}$ depends of the concentration of Fe^{2+} as follows then that of Fe^{3+} is ($E_{\text{Fe}^{3+}/\text{Fe}^{2+}}^{\circ} = 0.77 \text{ volt}$)

$\text{Fe}^{3+}/\text{Fe}^{2+}$ इलेक्ट्रोड के लिए 25°C पर कभी इकाई नहीं Fe^{3+} आयन की सांद्रता Fe^{2+} आयन की सांद्रता है $E_{\text{Fe}^{3+}/\text{Fe}^{2+}}^{\circ} = 0.77 \text{ वोल्ट}$

0.7088 volt

A

0.7288 volt

0.6987 volt

B

0.6287 volt

0.708 volt

C

0.728 volt

0.708 volt

D

0.702 volt

Correct Ans : A

Q No : 39

2000K18

The rate constant of a reaction is $1.5 \times 10^7 \text{ s}^{-1}$ at 50°C and $4.5 \times 10^7 \text{ s}^{-1}$ at 100°C. The activation parameter A and E_a is

एक प्रतिक्रिया की दर स्थिरांक $1.5 \times 10^7 \text{ s}^{-1}$ 50°C पर और $4.5 \times 10^7 \text{ s}^{-1}$ 100°C पर। सक्रियण पैरामीटर A और E_a है

 $5.42 \times 10^{12} \text{ s}^{-1}, 22 \text{ kJ/mol}$

A

 $5.42 \times 10^{12} \text{ s}^{-1}, 22 \text{ kJ/mol}$ $5.42 \times 10^8 \text{ s}^{-1}, 22 \text{ kJ/mol}$

B

 $5.42 \times 10^5 \text{ s}^{-1}, 22 \text{ kJ/mol}$ $5.42 \times 10^7 \text{ s}^{-1}, 22 \text{ kJ/mol}$

C

 $5.42 \times 10^7 \text{ s}^{-1}, 22 \text{ kJ/mol}$ $6.42 \times 10^{12} \text{ s}^{-1}, 22 \text{ kJ/mol}$

D

 $6.42 \times 10^{12} \text{ s}^{-1}, 22 \text{ kJ/mol}$

Correct Ans : A

Q No : 36

2000K17

The complex ion $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]^{3+}$ is—अणु संरचना $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]^{3+}$ है—

Tetrahedral and paramagnetic

A

square planar and diamagnetic

B

Tetrahedral and diamagnetic

अपेक्षा से अधिक

Square planar and paramagnetic

C

अपेक्षा से अधिक

Square planar and diamagnetic

D

अपेक्षा से अधिक

Correct Ans : C

Q No. 27 Which is correct in the case of $2d/3d/4d$ complex

2000800

- Strong field
- Octahedral
- High hybridization

$2d/3d/4d$ कम्प्लेक्स में सही है -

- Strong field
- Octahedral
- High hybridization

Only II

A

Both II

Both (I) and (III)

B

(I) और (III) ही

Both (I) and (II)

C

(I) और (II) ही

All (I), (II) and (III)

D

सब (I), (II) और (III)

Correct Ans : B

Q No. 28 Complexes with CF_3 ligands are usually -

2000800

- High spin complexes
- Low spin complexes

CF_3 लिगेण्ड वाले कम्प्लेक्स आमतौर पर -

- Low spin complexes
- High spin complexes

Only I

A

Both I

Only II

B

Both II

Both (I) and (II)

C

(I) और (II) ही

Neither (I) nor (II)

D

नहीं (I) नहीं (II)

Correct Ans : B

Q No. 29

QUESTION In the model below (B) we find that to be high spin complex, the probable hybrid state of cobalt is :-

(Assume that cobalt (II) atom has zero spin and it has zero d orbital energy as empty orbital) :-

$$d^2sp^3$$

A

$$d^2sp^2$$

$$sp^3$$

B

$$sp^3d$$

$$sp^2d$$

C

$$sp^2d$$

$$sp^3d^2$$

D

$$sp^3d^2$$

Correct Answer : **D**

Q No - 34 Red phosphorus is less reactive than yellow phosphorus because-

QUESTION

the reaction, the reaction is an example of :-

The reaction is red

A

oxidation or reduction :-

It is highly polymerized

B

the reaction is :-

It is intermediate

C

the reaction is :-

It is hard

D

the reaction is :-

Correct Answer : **B**

Q No - 35 In P_4O_{10} , the number of oxygen atoms bonded to each phosphorus atom is:-

QUESTION

P_4O_{10} is a tetrahedral molecule with 4 P atoms and 10 O atoms :-

2.5

A

2.5

3

B

3

4

C

4

5

D

5

Correct Answer : **C**

Q No - 37 Molecule used in sodium vapor is:-

QUESTION

Q No - 4 The first two acids are

CaCl_2 and CaCl_2

A

CaCl_2 and CaCl_2

CaCl_2 and CaCl_2

B

CaCl_2 and CaCl_2

CaCl_2 and CaCl_2

C

CaCl_2 and CaCl_2

CaCl_2 and CaCl_2

D

CaCl_2 and CaCl_2

Correct Ans : B

Q No - 11 N_2O_5 is

~~24029148~~

N_2O_5 is

As acidic oxide, and the anhydride of HNO_3

A

As acidic oxide, and the anhydride of HNO_3

As acidic oxide, and the anhydride of $\text{H}_2\text{N}_2\text{O}_5$

B

As acidic oxide, and the anhydride of $\text{H}_2\text{N}_2\text{O}_5$

As acidic oxide, and the anhydride of HNO_3

C

As acidic oxide, and the anhydride of HNO_3

As acidic oxide, and the anhydride of HNO_3

D

As acidic oxide, and the anhydride of HNO_3

Correct Ans : A

Q No - 18 Which one of the following is the strongest oxidizing agent?

~~24029148~~

Option 4 is the correct answer is

HClO_4

A

HClO_4

HClO_2

B

HClO_2

HClO_3

C

HClO_3

HClO_4

D

HClO_4

Correct Ans : A

Q No. 15 : During the properties (a) reducing (b) oxidizing (c) complexing, the use of pyrophoric species by DM is an essential option is :-

2020043

पुनराप (a) कमजोर (b) ऑक्सीकरण (c) संकुचन करने की प्रवृत्ति में इन पदार्थों का प्रयोग, डीएम के लिए आवश्यक विकल्प है :-

A. B

A

A. B

B. C

B

B. C

A. B

C

A. B

A. B, C

D

A, B, C

Correct Ans : A

Q No. 16 : The coordination number of a central metal atom in a complex is determined by

2020043

एक धातु के केंद्रित परमाणु की संयोजकता संख्या निर्धारित है :-

The number of ligands around a central ion bonded by sigma and pi-bonds both

A

एक धातु के केंद्रित परमाणु की संयोजकता संख्या निर्धारित है :-

The number of ligands around a central ion bonded by pi-bonds

B

एक धातु के केंद्रित परमाणु की संयोजकता संख्या निर्धारित है :-

The number of ligands around a central ion bonded by coordinate bonds

C

एक धातु के केंद्रित परमाणु की संयोजकता संख्या निर्धारित है :-

The number of only sigma bonds ligands bonded to the central ion

D

एक धातु के केंद्रित परमाणु की संयोजकता संख्या निर्धारित है :-

Correct Ans : C

Q No. 17 : Which one of the following complexes is not a chelate complex?

2020043

निम्नलिखित धातुओं में से कौन सा धातु चेलेट है :-

$[Cr(NH_3)_6]^{3+}$

A

$[Cr(NH_3)_4]^{3+}$

$[Ni(CN)_4]^{2-}$

B

$[Ni(CN)_4]^{2-}$

$[Fe(CN)_6]^{4-}$

C

$[Fe(CN)_6]^{4-}$

D



Correct Ans : B

Q.No. 38 The $\text{CH}_3\text{CH}_2\text{CH}_2\text{F}$ is a good molecule for study of RSCC because of RSCC in organic molecules. model for (2) (1,3, 16 = 20)

RSCC is a good molecule for study of RSCC because of RSCC in organic molecules. model for (2) (1,3, 16 = 20)

A

B

1.75

C

1.75

3.00

D

3.00

4.00

4.00

Correct Ans : B

Q.No. 39 Which of the following reaction is an example of hydrogenation?

Hydrogenation is a chemical reaction in which hydrogen is added to a molecule.



Correct Ans : B

Q.No. 40 The isopropyl alcohol is a good molecule for study of RSCC because of RSCC in organic molecules. model for (2) (1,3, 16 = 20)



Hydrogenation is a chemical reaction in which hydrogen is added to a molecule.



$\text{C}_6\text{H}_5\text{CO}_2\text{Na}$, $\text{C}_6\text{H}_5\text{CO}_2\text{MgBr}$, $\text{C}_6\text{H}_5\text{CO}_2\text{OH}$
 $\text{C}_6\text{H}_5\text{CO}_2\text{Na}$, $\text{C}_6\text{H}_5\text{CO}_2\text{MgBr}$, $\text{C}_6\text{H}_5\text{CO}_2\text{CO}_2\text{H}$

A

$\text{C}_6\text{H}_5\text{CO}_2\text{Na}$, $\text{C}_6\text{H}_5\text{CO}_2\text{MgBr}$, $\text{C}_6\text{H}_5\text{CO}_2\text{CO}_2\text{Mg}$
 $\text{C}_6\text{H}_5\text{CO}_2\text{Na}$, $\text{C}_6\text{H}_5\text{CO}_2\text{MgBr}$, $\text{C}_6\text{H}_5\text{CO}_2\text{HCO}_2\text{MgBr}$

B

$\text{C}_6\text{H}_5\text{CO}_2\text{Na}$, $\text{C}_6\text{H}_5\text{CO}_2\text{MgBr}$, $\text{C}_6\text{H}_5\text{CO}_2\text{HCO}_2\text{MgBr}$
 $\text{C}_6\text{H}_5\text{CO}_2\text{Na}$, $\text{C}_6\text{H}_5\text{CO}_2\text{MgBr}$, $\text{C}_6\text{H}_5\text{CO}_2\text{CO}_2\text{Na}$

C

$\text{C}_6\text{H}_5\text{CO}_2\text{Na}$, $\text{C}_6\text{H}_5\text{CO}_2\text{MgBr}$, $\text{C}_6\text{H}_5\text{CO}_2\text{CO}_2\text{Na}$

Correct Ans : D

Q No. 41 The reaction

2009-10



असिद्धि



Like persulphate oxidation

A

जैसे ताम्रक प्रयोग
Keller reaction

B

कोले असिद्धि
Kolbe-Tiemann reaction

C

जैसे-जैसे असिद्धि
Lederer-Mann reaction

D

जैसे-जैसे असिद्धि

Correct Ans : B

Q No. 42 Sodium phenoxide on heating with CO_2 under pressure gives mainly

2009-10

असिद्धि असिद्धि की जगह पर CO_2 के साथ गंधकाली के दबाव प्रयोग पर प्रयोग है:

o-hydroxybenzaldehyde

A

o- hydroxybenzaldehyde
o-hydroxybenzyl alcohol

B

o- hydroxybenzyl alcohol
o-hydroxybenzoic acid

C

o- hydroxybenzoic acid
o-hydroxyphenol

D

o- hydroxyphenol

Correct Ans : B

Q No : 42 Which one of the following aldehyde and/or ketone is not an aldose? (100%)

try if it also differs in taste is not like an apple off the



A



B



C



D



Correct Ans : C

Q No : 43 An organic liquid which reduces fehling's reagent gives carbanilic acid on oxidation is which 96.27% Nitrogen is present. The liquid would be (100%)

cannot be an aldehyde or ketone as it is not a carbanilic acid. It is a carbanilic acid.



A



B



C



D



Correct Ans : B

Q No : 45 Formaldehyde on treatment gives product, which on further reaction with benzaldehyde gives (100%)

formaldehyde is an aldehyde and gives off benzaldehyde on further reaction.

A

Formaldehyde

- A** CC(C)C
Methylpropane
- B** CC(C)CC
Trimethyl
- C** CCCC
Butane
- D** CCCCC
Pentane

Correct Ans : B

Q No : 66 A mixture of the simplest members of alkanes and alkene families is heated in a mixture of acids of the following compounds

- A** CC(C)C
Methylpropane
- B** CC(C)CC
Trimethyl
- C** CCCC
Butane
- D** CCCCC
Pentane

Correct Ans : B

Q No : 67 Which compound does not react with Br2 :-

- A** CC(C)C
Methylpropane
- B** CC(C)CC
Trimethyl
- C** CCCC
Butane
- D** CCCCC
Pentane

Correct Ans : B

Q No : 68 Oxalic acid + lime $\xrightarrow{\text{heat}}$ Cyclic compound Number of sp² hybridized carbon in the cyclic compound

- A** 2

3
4

10

5
6

15

7
8

20

9

Correct Ans : C

Q No : 69 This compound does not respond to chelky bromine reaction.

20050179

or other active hetero atoms (if it were) δ^- hetero

Non-nucleophilic

A

acyclic ether
-Nucleophilic

B

cyclic ether
-Nucleophilic

C

cyclic ether
Non-Nucleophilic

D

acyclic ether
Non-Nucleophilic

Correct Ans : B

Q No : 70 Isotone is characterized by :

20050186

Identical number of protons & the total

$C_2H_2MO_2$, Fe, H_2O , HCl

A

$C_2H_2MO_2$, Fe, H_2O , HCl
 C_2H_2O , NH_3 , CaO

B

C_2H_2O , NH_3 , CaO
 $C_2H_2MO_2$, Zn, NaOH

C

$C_2H_2MO_2$, Zn, NaOH
 $C_2H_2MO_2$, $SnCl_2$, HCl

D

$C_2H_2MO_2$, $SnCl_2$, HCl

Correct Ans : A

Q No : 71 _____ percent of the total workforce in the country is not engaged in agriculture associated sector activities. (CWSR 2011)

20050188

or if you enter as _____ then you might do say do all related things (correct ans)

A 48.6

15.0

17

B

17

14.0

C

14.0

10.0

D

10.0

Correct Ans : C

Q No. 10 What is the growth rate of agriculture sector at constant price during 2020-2021 (first estimate estimation)?

20200410

2020-2021 (first estimate) is 2.0% less than the growth rate of 2019-2020 (first estimate) is

2 percent

A

4 percent

3.1 percent

B

3.1 percent

3.0 percent

C

3.0 percent

3.0 percent

D

3.4 percent

Correct Ans : B

Q No. 11 In the year 2019-20 (in per fourth estimate estimation), total food grain produced in in the country is estimated at around _____ million tonnes. (First estimate survey

20200410

of 2019-20 (first estimate) is 1.0% less than the growth rate of 2018-19 (first estimate) is _____ million tonnes (First estimate survey

20200410

A

200.00

100.0

B

100.0

100.00

C

200.00

100.00

D

200.00

Correct Ans : A

Q No. 12 In the Union Budget for 2020-21 it was announced that MSPs would be kept at the level of _____ times of the cost of production.

20200410

2020-21 is 1.0% less than the growth rate of 2019-20 (first estimate) is _____ times of the cost of production

2

A

3

B

1.5

1.5
2.5

B

3.5
5

C

7

Correct Ans : B

Q No. 18 What is the average rain received per hectare under PMFME?

2000000

water is supplied (per hectare) under PMFME

10,000

A

10,000
10,000

B

10,000
10,000

C

10,000
10,000

D

10,000

Correct Ans : B

Q No. 19 The head office of Indian Council of Agricultural Research (ICAR) is located at _____.

2000000

which city is the head office of Indian Council of Agricultural Research (ICAR)?

Chennai

A

Delhi
New Delhi

B

of Delhi
Mumbai

C

Delhi
Hyderabad

D

Delhi

Correct Ans : B

Q No. 20 Which "vegetable" grows? Is related to which of the following crops?

2000000

which "vegetable" grows? Is related to which of the following crops?

Tomato, Onion and Garlic

A

onion, carrot and
Spinach, Broccoli and cauliflower

B

onion, carrot and
onion, carrot and

C

Tomato, Onion and Potato

मन, नमो भगवते वासुदेवाय

Paragmeeth, Carlsbad and Berlin

Q

॥६, श्रीरुद्राक्षरं

Correct Ans : C

Q No. 55 What is the most used source of irrigation in India?

2005833

_____ was the first to use the word 'Hindu' to describe the people of India.

Canals

A

रुद्राक्षरं

Tanks

B

रुद्राक्षरं

Tube wells

C

रुद्राक्षरं

Wells

D

रुद्राक्षरं

Correct Ans : C

Q No. 56 _____ is the most widely practiced of pesticides for genetically modified crops in India.

2005834

_____ was the first to use the word 'Hindu' to describe the people of India.

Canals

A

रुद्राक्षरं

Tanks

B

रुद्राक्षरं

Wells

C

रुद्राक्षरं

Wells

D

रुद्राक्षरं

Correct Ans : B

Q No. 57 What is the following a Jataka story?

2005835

_____ was the first to use the word 'Hindu' to describe the people of India.

अष्टादश

A

अष्टादश

One

B

अष्टादश

Arable

C

अष्टादश

Paraph

D

अष्टादश

Correct Ans : E

Q No : 51 State the most important widely used policy response measure -

20090804

and enough money are it exists all will not not allow any growth any

FFR, Output and Green measure

A

positive (FFR), then any change any

Positive measure

B

negative

Concentrated response measure

C

any other any

SPC

D

policy (SPC)

Correct Ans : A

Q No : 52 State the first industrialised nation to ban -

20090804

and it will not allow any growth any

SPC

A

SPC (first)

SPC

B

SPC (second)

SPC

C

SPC (third)

SPC

D

SPC (fourth)

Correct Ans : B

Q No : 53 How much Organic Matter is present in the soil -

20090804

which is very small is another way of saying it -

0%

A

0%

20%

B

20%

20%

C

20%

20%

D

20%

20%

10%

Correct Answer: A

Q No: 98 Which one of the following fertilizers has zero equivalent acid?

2009014

उपलब्ध है कि निम्नलिखित में से कौन सा शून्य अम्लीय है?

Calcium nitrate

A

Urea

Ammonium Sulphate

B

Sulphuric acid

DAP

C

GFA

DAP

D

GFA

Correct Answer: A

Q No: 99 What is the average fertilizer use efficiency of nitrogenous fertilizer?

2009014

उत्प्रेरण के लिए औसत औसत प्रत्यक्ष प्रयोग है?

20%

A

20%

37%

B

37%

48%

C

48%

58%

D

58%

Correct Answer: D

Q No: 100 Most waterlogging prone areas crop are

2009018

सबसे अधिक जलमय होने वाले फसलें हैं-

Rice

A

Wheat

Mustard

B

Rice

Mustard

C

Wheat

D

Mustard

(24/1)

Correct Ans : A

Q No - 97 Among the given option which is in the green growing stage?

2009835

Which of the following is in the green growing stage?

Paragana

A

Gulda

Mewa

B

Dy

Makua

C

Kpa

Kachoway

D

Wajin

Correct Ans : D

Q No - 98 Which of the following is not a type of insect?

2009836

Which of the following is not a type of insect?

18

A

19

20

B

21

22

C

23

24

D

25

Correct Ans : B

Q No - 99 Which of the following is not a type of insect?

2009837

Which of the following is not a type of insect?

Mewa is large quantity

A

Dy is large

Kachoway

B

Kachoway

Mewa is large

C

Kachoway

Cyaneobacteria

D

Kachoway

Correct Ans : D

Q No - 100

gfr less cpr at also after pr fr

15.00 mm

A

15.00 mm

15.00 mm

B

15.00 mm

15.00 mm

C

15.00 mm

15.00 mm

D

15.00 mm

Correct Ans : E

Q No : 74 How many Agps - Atomic mass are in 1 mole?

2005954

How many Agps - Atomic mass are in 1 mole?

12

A

10

13

B

11

14

C

15

16

D

17

Correct Ans : A

Q No : 75 Unit of Atomic Number is _____.

2005958

Unit of Atomic Number is _____.

g cm^3

A

g cm^3

g cm^2

B

g cm^2

g cm

C

g cm

g cm

D

g cm

Correct Ans : A

Q No : 76 direction is used for

2005957

velocity an object travels the time it

Measure wind speed

A

per unit area perpendicular to the

Measure wind velocity

B

per unit area perpendicular to the

Measure the height

C

per unit area perpendicular to the

Measure wind direction

D

per unit area perpendicular to the

Correct Answer : C

Q No. 77 How many days - duration period are taken in study for Planning Commission of India?

2000000

was in storm and the person following the way did not follow the way to

14

A

14

18

B

18

12

C

12

16

D

13

Correct Answer : B

Q No. 78 Coldest layer of atmosphere is

2000000

regions of soil will not be

Mesosphere

A

Exosphere

Thermosphere

B

Stratosphere

Troposphere

C

Exosphere

Stratosphere

D

Thermosphere

Correct Answer : A

Q No. 79 Which is the first pattern to through the cloud habitat of climate record in vegetation?

2000000

world is used to study to inform us about what our world will be for

A

Exosphere

अणु

त्रुत

B

अणु

अणु

C

अणु

अणु

D

अणु

Correct Answer : C

Q No. 81 Which of the following is not a part of the egg production process?

2009463

अणु

अणु

A

अणु

अणु

B

अणु

अणु

C

अणु

अणु

D

अणु

Correct Answer : B

Q No. 82 Exposure of eggs to _____ hours of darkness or darkness may increase the egg production.

2009464

अणु

अणु

A

अणु

अणु

B

अणु

अणु

C

अणु

अणु

D

अणु

Correct Answer : B

Q No. 83 Exposure of eggs to _____ hours of darkness or darkness may increase the egg production.

2009465

अणु

अणु

A

अणु

अणु

B

अणु

Q No. 83

1780

1780

1787

B

1787

Correct Ans : B

Q No. 84 Artificial incubation was practiced since _____ years ago in Egypt and China

2004293

_____ years ago the first artificial incubator was built in (Italy) at 18th century before now

1,000

A

1,000

2,000

B

3,000

1000

C

1000

1000

D

1000

Correct Ans : D

Q No. 85 Brightness control _____ hatched chicks by passing hot air through the egg storage nests

2004293

_____ years ago it got started in the world in America by John George Lewis

John Miles

A

John Miles

John Champion

B

John Miles

John Leggett

C

John Miles

John Williams

D

John Miles

Correct Ans : B

Q No. 86 Estimated light exposure of eggs produced by _____ well built the first for 16 hours effectively stimulated at new egg production

2004293

_____ years ago it was started in the _____ and was the first time when it was used in the world of new egg production

100

A

100

1000

B

1000

1000

C

1000

1000

D

1000

Q No. 89 There are about _____ number of breeds of cattle in India besides hybrid.

2006029

How it used to work without internet _____ red (i)

14

A

14

20

B

20

20

C

20

12

D

12

Correct Ans : E

Q No. 90 There are about _____ number of breeds of buffaloes in India besides non-descript.

2006034

How it used to work without internet _____ red (i)

6

A

6

9

B

9

10

C

10

12

D

12

Correct Ans : B

Q No. 91 _____ is a breed of cattle

2006039

_____ without internet (i)

Shadhinari

A

Uppal

Thangarkur

B

Uppal

Kashmiri

C

Uppal

Lundra

D

Uppal

Correct Ans : B

Q No. 92 _____ is a breed of buffalo

2006038

_____ (b) of no use ()

Swathes

A

allies

Swath

B

allies

Swathes

C

swaths

allies

D

all

Correct Ans : B

Q No : 93 The higher metabolism and its metabolic wastes like uric acid found in:

2006007

_____ (b) of no use ()

Large and well-described

A

all of well up to all

Large and non-described

B

all of well

Small and well described

C

all of well up to all

Small and non-described

D

all of well

Correct Ans : D

Q No : 94 Every animal suffering from _____, has broad skull, large eye sockets, short and broad nose bones and forehead broader than crown:

2006008

_____ is (b) of no use ()

Agoutis

A

arm

Volcanic hares

B

allies of

Nothing Head

C

gash of

Landest hares

D

all of

Correct Ans : B

Q No : 95 Dystocia, among the domesticated species is most found in some is _____

2006009

_____ (b) of no use ()

Dogs

A

all

100
100

B

100

Correct Answer : C

Q No : 99 According to the FFA norms, the buffalo whose milk for most of the States should contain

2006013

0.5% fat and 0.5% solids not fat in the milk

A minimum of 0.5% Fat and 0.5% S.N.F.

A

0.5% fat and 0.5% solids not fat.

A minimum of 0.5% Fat and 0.5% S.N.F.

B

0.5% fat and 0.5% solids not fat.

A minimum of 0.5% Fat and 0.5% S.N.F.

C

0.5% fat and 0.5% solids not fat.

A minimum of 0% Fat and 0% S.N.F.

D

0.5% fat and 0.5% solids not fat.

Correct Answer : B

Q No : 100 According to the FFA norms, the Standardized milk should contain

2006013

0.5% fat and 0.5% solids not fat in the milk

A minimum of 0.5% Fat and 0.5% S.N.F.

A

0.5% fat and 0.5% solids not fat.

A minimum of 0.5% Fat and 0.5% S.N.F.

B

0.5% fat and 0.5% solids not fat.

A minimum of 0.5% Fat and 0.5% S.N.F.

C

0.5% fat and 0.5% solids not fat.

A minimum of 0.5% Fat and 0% S.N.F.

D

0.5% fat and 0.5% solids not fat.

Correct Answer : B

Q No : 101 Which of the following vegetables is perennial?

2006013

Brassica oleracea

Carrot

A

Spinach

Asparagus

B

Garlic

Onion

C

Radish

D

Peas

apple

Correct Ans : B

Q No. 102 Based on method of culture, vegetables are classified into

2006014

veg. is called is seen to reflect all level veg & other like veg fr

7 groups

A

2 veg &

10 groups

B

10 veg &

13 groups

C

15 veg &

18 groups

D

15 veg &

18 groups

Correct Ans : C

Q No. 103 Based on the season of growth, the vegetables can be classified into

2006014

veg is flow is seen to, reflect all it a figs like is seen fr

8 groups

A

2 veg

3 groups

B

2 veg

3 groups

C

2 veg

7 groups

D

2 veg

Correct Ans : E

Q No. 104 Which of the following is a major cluster of areas in India

2006014

veg & leaflets if it also is seen in regions fr

White red

A

White veg

Red

B

veg

Leaf Right

C

Red veg

Purple Red

D

veg veg

Correct Ans : D

Q No. 105

Q No - 1007 Which of the following crops has maximum production in the world

Which of the following crops has maximum production in the world

Correct Answer

A

Wheat
Wheat

B

Rice
Rice

C

Soy
Soy

D

Maize

Correct Answer : B

Q No - 1008 The seed rate of sorghum for sowing 1 hectare area

The seed rate of sorghum for sowing 1 hectare area

200 - 300 g

A

200 - 300 kg
200 - 300 kg

B

400 - 600 kg
400 - 600 kg

C

400 - 600 kg
400 - 600 kg

D

2000 - 3000 kg

Correct Answer : B

Q No - 1007 Which of the following is the crop which has the highest yield

Which of the following is the crop which has the highest yield

Wheat

A

Rice
Rice

B

Soy
Soy

C

Maize
Maize

D

Wheat

Correct Answer : B

Q No - 1008 Which of the following is the crop which has the highest yield

Which of the following is the crop which has the highest yield

A

Belgian

XXXX

XX

B

XX

XX

C

XX

XX

D

XXXX

Correct Ans : B

Q No. 109 Patients taking corticosteroids are at _____ amount

2006485

very to very of suffering _____ risk of death

20 20

A

20 20

20 20

B

20 20

20 20

C

20 20

20 20

D

20 20

Correct Ans : C

Q No. 110 "Golden rule" observed in hospital is observed by

2006492

One of the rule (Golden rule) observed in hospital is

Mycoplasma

A

Myoplasma

Fungus

B

2006

Bacteria

C

2006

Virus

D

2006

Correct Ans : A

Q No. 111 Patients that type is known as

2006498

One of the rule (Golden rule) observed in hospital is

2006

A

20

B

2006

and
capsule

A

bag
pan

B

pill

Correct Ans : A

Q No. 112 Critical night temperature for food storage in capsule is

2000498

more it was and is the better for an answer ?

37°C

A

24°C
15°C

B

18°C
12°C

C

15°C
10°C

D

10°C

Correct Ans : C

Q No. 113 Object of water is not to

2000498

neutralize pH & keep water pH 7

Stop growth of capsule

A

control growth of capsule
Stop of capsule

B

control the growth
Control of capsule

C

control the growth
Prevent of capsule

D

control the growth

Correct Ans : A

Q No. 114 Precursor of chylone is

2000498

cholesterol

SAM

A

SAM

Tryptophan

B

tyrosin

C

Methionine

question

Correct Ans : B

Q No : 118 Most of the fruit crops are cultivated under which planting system?

2000419

Select one or more of the following items which are correct ()

contour system

A

slope method

hexagonal system

B

square method

rectangular system

C

square method

Square system

D

triangular method

Correct Ans : D

Q No : 119 Propagation through the seeds is most common in

2000420

Select one or more of the following items which are correct ()

Mango

A

Apple

Peaches

B

Guava

Banana

C

Orange

Lemon

D

Cherry

Correct Ans : B

Q No : 120 The share of horticulture in agriculture GDP is about

2000421

Select one or more of the following items which are correct ()

30%

A

32%

40%

B

42%

45%

C

48%

50%

D

55%

Correct Ans : A

Q No : 121 "Protective belt" include

2000000

फल और सब्जी का अर्थ है ?

Fruits & vegetable

A

वे सब्जी और

उत्पन्न

B

उत्पन्न

Fruits

C

उत्पन्न

Meats

D

वे सब्जी

Correct Ans : A

Q No. 1.21 The study of that science comes under

2000000

वे सब्जी और उत्पन्न उत्पादों का अर्थ है ?

Fruiticulture

A

उत्पन्न

Circumference

B

उत्पन्न

Perimeter

C

उत्पन्न

Circumference

D

उत्पन्न

Correct Ans : E

Q No. 1.22 Which country has the highest production of fruits and vegetables

2000000

फल और सब्जी का अर्थ है उत्पन्न उत्पादों का अर्थ है ?

China

A

उत्पन्न

India

B

USA

USA

C

उत्पन्न

Brazil

D

उत्पन्न

Correct Ans : A

Q No. 1.24 Which type of planting system followed in Hilly areas

2000000

फल और सब्जी का अर्थ है उत्पन्न उत्पादों का अर्थ है ?

Square system

A

- ☐ all profit
 irregular system
- ☐ specific profit
 nonlinear system
- ☐ zero profit
 rectangular system
- ☐ average profit
 irregular profit

Correct Ans : C

Q No : 126. Estimate of associated transaction from the plot is called

20060112

- ☐ is called as plot of associated transaction
- ☐ Framing
- ☐ Plot
- ☐ Banding
- ☐ Plot
- ☐ Plot
- ☐ Plot
- ☐ Plot
- ☐ Plot

Correct Ans : E

Q No : 128. Net loss value of property is due to

20060118

- ☐ net loss value of property is due to
- ☐ Anticipation
- ☐ Anticipation
- ☐ Anticipation
- ☐ Anticipation
- ☐ Anticipation
- ☐ Anticipation
- ☐ Anticipation

Correct Ans : B

Q No : 127. An inventory is most common method of depreciation is

20060118

- ☐ inventory method is most common method of depreciation
- ☐ Inventory
- ☐ Inventory
- ☐ Inventory
- ☐ Inventory
- ☐ Inventory
- ☐ Inventory
- ☐ Inventory

Q. 126

Which

Which

B

Which

Correct Ans : B

Q No : 126 The part of plot in which putting is done is called

2000010

Which is the part of plot in which putting is done is called

Which

A

Which

Which

B

Which

Which

C

Which

Which

D

Which

Correct Ans : B

Q No : 127 Seedling is prepared in garden to encourage

2000010

Seedling is prepared in garden to encourage

Seedling

A

Seedling

Seedling

B

Seedling

Seedling

C

Seedling

Seedling

D

Seedling

Correct Ans : B

Q No : 128 Removal of terminal portion of shoot leaving basal portion of shoot is known as

2000010

Removal of terminal portion of shoot leaving basal portion of shoot is known as

Removal

A

Removal

Removal

B

Removal

Removal

C

Removal

D

Removal

प्रश्न

Correct Ans : A

Q No. : 121 Which of the following is not the advantage of Transplanted crop?

2006793

विवरण में से सही-सही बताइए कि कौन सा लाभ नहीं है।

About 10, which affects almost every crop during the first 8 weeks and which is difficult to control, can be effectively and economically controlled in the nursery stage.

A

एक वर्ष, जो वर्ष 2 वर्षों के दौरान बीज बोने के बाद से लगभग 8 हफ्ते तक रहता है और नियंत्रित करना मुश्किल है, को प्रभावी और आर्थिक रूप से प्रभावी रूप से नियंत्रित किया जा सकता है।
Main field duration is reduced by 32 days.

B

पुष्पों को मिलाकर 12 दिनों में फल हो सके हैं।

Seedlings which show chlorotic and stunted symptoms can be eliminated, thereby incidence of stunted seedlings in the main field can be minimized.

C

यदि बीज में लक्षणीय बीज बोने के बाद से लगभग 8 हफ्ते तक रहता है, तो बीज बोने के बाद से लगभग 32 दिनों में फल हो सके हैं।
Seed rate can also be reduced by 3.8 kg/ha.

D

बीज 12 बीजों में 2.8 किग्रा/हेक्टा तक कम हो सकते हैं।

Correct Ans : B

Q No. : 122 Which of the following is the first growth stage of sugarcane shoot?

2006793

विवरण में से सही बताइए कि किसका विकास शीघ्र होता है।

Maturity

A

Seedling

B

Jug

Stemling

C

Till

Flowering

D

Till

E

Correct Ans : B

Q No. : 123 Which is one of the oldest fruits known to mankind and is also known as "Apple of Paradise" & "Tree of Wisdom"?

2006793

कौन सा फल मानव जाति के सबसे पुराने ज्ञात फलों में से एक है और इसे "पारदिस का फल" और "विद्या का वृक्ष" के रूप में भी जाना जाता है।

Grapes

A

Mango

B

Apple

C

Banana

D

Jack

E

Correct Ans : B

Correct Ans : B

Q No : 138 Which of the following is the part of the division of Tamil?

2006/19

தமிழ்ச் சான்றுகள் அல்லது இவற்றில்

சூரிய மண்டலம்

A

சூரிய

ஆண்டிரோமீடா

B

சூரிய

சூரிய மண்டலம்

C

சூரிய

ஆண்டிரோமீடா

D

சூரிய

Correct Ans : B

Q No : 139 Which of the following are collected species with domestic animals, characteristics, a formation and reproduction?

2006/19

தமிழ்ச் சான்றுகள் அல்லது இவற்றில் (சான்றுகள், அமைப்பு மற்றும் இனப்பெருதல்)

மீன்கள்

A

மீன்கள்

மீன்கள்

B

மீன்கள்

மீன்கள்

C

மீன்கள்

மீன்கள்

D

மீன்கள்

Correct Ans : D

Q No : 138 The following number belong to which of the following group?

2006/19

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

A

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

B

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

C

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

D

15 10-15, 16 10-15, 17 10-15, 18 10-15, 19 10-15, 20 10-15, 21 10-15.

Correct Ans : C

Q No : 107 _____ with long handles are suitable for weeding in row crops in row bed and garden beds.

2006400

_____ are (one row and three or four up to six rows) in the row crop (1)

Answer: Row

A

Engine operated weeder

B

Very local weeder

C

Can weeder for quality

D

Correct Ans : E

Q No : 108 In the financial year 2020, the yield of rice across India was estimated to be approximately how many thousand kilograms per hectare?

2006400

India and across it, 4) way it was all over across India from India all India 4) was across across

A

3.1

B

4

C

3.7

D

3.7

Correct Ans : B

Q No : 109 What is the key colour of Certified seed?

2006400

Yellow

A

White

B

Dark Green

C

Green

D

Correct Ans : C

Q No : 100 Increased in poultry is characterized _____ virus

2006400

and they are in all other soil _____ all year in

Hard

A

light

Rich

B

red

Dark

C

dry

Moisture

D

Wet

Correct Answer : B

Q No - 140 What does Mixed Cropping stands for?

2006013

When more crops are in

Mixed Cropping is in which paddy is grown in sequence on the same field, with the succeeding crop planted after the harvest of the preceding crop.

A

When more crops are in the soil at the same time, but each crop is grown separately in its own field.

Mixed Cropping stands for where seeds of pulses, singly or in combination were broadcasted in standing paddy field 21 days.

B

When more crops are in the soil at the same time, but each crop is grown separately in its own field.

Broadcasting of two or more varieties of paddy simultaneously and intermingled without row arrangements.

C

When more crops are in the soil at the same time, but each crop is grown separately in its own field.

Mixed Cropping is a system of cultivation in which a paddy is grown over a large area of land after the harvest of the preceding crop.

D

When more crops are in the soil at the same time, but each crop is grown separately in its own field.

Correct Answer : C

Q No - 142 In which type of cropping system two or more crops are grown either in succession or response or association for entire or part period of their life cycles on the same field?

2006014

When two or more crops are in the soil at the same time, but each crop is grown separately in its own field.

Mixed Cropping

A

When more

Mixed Cropping

B

When more

Augmenting crop

C

When more

Parallel Cropping

D

When more

Correct Answer : B

Q No - 143 In which time is known as "peak season time"?

2006015

When the climate is most suitable for the crop.

A

Peak Season

बहुलता

High Fertility of birds

B

बहुल प्रजनन

Late onset and early cessation of ovine

C

असमान और अनियमित वितरण

Inadequate and uneven distribution of rainfall

D

बहुल और अनियमित वितरण

Correct Ans : A

Q No : 144 Which of the following is not the example of r-strategy?

2000009

वृद्धिशील किंवा अल्प आयु का स्वरूप नहीं है

Human

A

उभय

Rabbit

B

उभय

Blue

C

उभय

Bengal Fox

D

उभय

Correct Ans : B

Q No : 145 Caprine caper is the scientific name of which of the following plants below?

2000007

वृद्धिशील किंवा अल्प आयु का स्वरूप नहीं है

Cactus

A

उभय

Blue

B

उभय

Pigeon Pea

C

उभय किंवा

Cactus

D

उभय

Correct Ans : C

Q No : 146 Which of the following is not an example of the r-strategy?

2000008

वृद्धिशील किंवा अल्प आयु का स्वरूप नहीं है

wheat

A

उभय

B

Cactus

Q No. 152 100%

100%

Correct Ans : B

Q No. 152 Find the characteristics given below identify the name of crop.

2004798

1. It is a food as well as fodder crop grown under semi-arid climatic conditions and over inferior soils.
2. This crop occupies only about 1.4 per cent of total cropped area.
3. It is found all over India except Punjab and western and north-western regions.

निम्न दी गई विशेषताओं से नाम के रूप में पहचान करें।

1. यह एक खाद्य और चारा दोनों के रूप में अर्ध-शुष्क जलवायु में और खराब मिट्टी में उगाया जाता है।
2. यह फसल केवल कुल कृषि क्षेत्र का 1.4 प्रतिशत हिस्सा लेती है।
3. यह फसल पूरे भारत में पाई जाती है, लेकिन पंजाब और पश्चिम और उत्तर-पश्चिम क्षेत्रों में नहीं पाई जाती है।

Answer

A 100%
PulsesB 100%
WheatC 100%
MaizeD 100%
Soybean

Correct Ans : B

Q No. 153 $\cos^2 \theta + \cos 2\theta + \cos 4\theta + \dots + \cos 12\theta = ?$

2004799

$$\cos^2 \theta + \cos 2\theta + \cos 4\theta + \dots + \cos 12\theta = ?$$

A 1

B 2

C $\frac{\sqrt{3}}{2}$ D $\frac{\sqrt{3}}{3}$ E $\frac{\sqrt{3}}{4}$

Correct Ans : B

Q No. 154

2004799

Find the value of $\frac{\sin(10^\circ - \theta) \cos(10^\circ - \theta) \cos(10^\circ)}{\cos(\frac{7}{2}\theta) \cos(\frac{5}{2}\theta) \cos(\frac{3}{2}\theta) \cos(\frac{1}{2}\theta)}$

$$\frac{\sin(90-\theta)\cos\theta+\cos(90-\theta)\sin\theta}{\cos\left(\frac{\theta}{2}\right)\cos\left(\frac{\theta}{2}\right)+\sin\left(\frac{\theta}{2}\right)\sin\left(\frac{\theta}{2}\right)} \text{ का मान ज्ञात करें।}$$

$$\tan \theta = \sec \theta$$

A

$$\tan \theta = \sec \theta$$

$$\sec \theta$$

B

$$\sec \theta$$

$$\cos \theta = \sin \theta$$

C

$$\cos \theta = \sin \theta$$

$$1$$

D

$$1$$

Correct Ans : B

Q No : 133 The value of $\cos(150^\circ)$ is?

2020-07-17

$$\cos(150^\circ) \text{ का मान क्या है?}$$

$$\frac{-\sqrt{3}}{2}$$

A

$$\frac{1}{2}$$

B

$$\frac{\sqrt{3}}{2}$$

C

$$\frac{\sqrt{3}}{2}$$

D

$$\frac{1}{2}$$

Correct Ans : C

Q No : 134 Calculate the value of $\cos 180^\circ$.

2020-07-18

$$\text{मान ज्ञात करें, } \cos 180^\circ.$$

$$1$$

A

$$1$$

B

$$0$$

C

$$0$$

https://rppet.ciwexa.com/MPPSB_Card_Objective/ObjectiveAdminpanel/First_Model_Answer.aspx

$$\frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}}$$

D

$$\frac{1}{\sqrt{2}}$$

Correct Ans : C

Q No : 175
2005799 If $\tan A = \frac{1}{2}$ and $\tan B = \frac{1}{3}$, then find the value of $\sin(A+B)$

$$(i) \tan A = \frac{1}{2}, (ii) \tan B = \frac{1}{3}, \text{ then } \sin(A+B) = \frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}}$$

A

$$\frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}}$$

B

$$\frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}}$$

C

$$\frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}}$$

D

$$\frac{1}{\sqrt{2}}$$

Correct Ans : B

Q No : 176
2005799 If $\sin 2x = \cos(3x - 45^\circ)$, then x equals to

$$(i) \sin 2x = \cos(3x - 45^\circ), \text{ then } x \text{ equals to } 27^\circ$$

$$27^\circ$$

A

$$27^\circ$$

$$45^\circ$$

B

$$45^\circ$$

$$33^\circ$$

C

$$33^\circ$$

$$18^\circ$$

D

187

Correct Ans : A

Q No. 187 Find the exact value of $(\sin 30^\circ \cos 45^\circ + \sin 45^\circ \cos 60^\circ) + (\sin 45^\circ \cos 60^\circ + \sin 60^\circ \cos 90^\circ)$.

2004798

 $(\sin 30^\circ \cos 45^\circ + \sin 45^\circ \cos 60^\circ) + (\sin 45^\circ \cos 60^\circ + \sin 60^\circ \cos 90^\circ)$ 01 02 03 04 05 06 07 08 09 10 11 12

$$\frac{11}{4}$$

A

$$\frac{11}{2}$$

$$\frac{11}{4}$$

B

$$\frac{11}{4}$$

$$\frac{11}{4}$$

C

$$\frac{11}{4}$$

$$\frac{11}{4}$$

D

$$\frac{11}{4}$$

$$\frac{11}{4}$$

Correct Ans : B

Q No. 188 If $\sin A + \cos A / \sin A - \cos A \geq 0$ where A lies between 0 & $\pi/2$. Find the value of $\sin A + \sin A \cos A$.

2004798

 $\sin A + \cos A / \sin A - \cos A \geq 0$ 01 02 03 04 05 06 07 08 09 10 11 12

$$\frac{11}{12}$$

$$\frac{11}{12}$$

A

$$\frac{11}{12}$$

$$\frac{11}{12}$$

B

$$\frac{11}{12}$$

$$\frac{11}{12}$$

C

$$\frac{11}{12}$$

$$\frac{11}{12}$$

$$\frac{11}{12}$$

D

$$\frac{11}{12}$$

$$\frac{11}{12}$$

Correct Ans : B

Q No. 188 Which of the following statement is true for $\cos \theta < \sin \theta$?

2004809

निम्नलिखित में से कौनसा सत्य है $\cos \theta < \sin \theta$ के लिए सत्य है?

$$\frac{\pi}{4} < \theta < \frac{\pi}{2}$$

A

$$\frac{\pi}{4} < \theta < \frac{\pi}{2}$$

$$\frac{\pi}{2} < \theta < \frac{3\pi}{4}$$

B

$$\frac{\pi}{2} < \theta < \frac{3\pi}{4}$$

$$0 < \theta < \frac{\pi}{4}$$

C

$$0 < \theta < \frac{\pi}{4}$$

$$0 < \theta < \frac{\pi}{4}$$

D

$$0 < \theta < \frac{\pi}{4}$$

Correct Ans : A

Q No: 108 If $0 \leq \theta \leq 180$, then which of the following is necessarily true?

2020017

यदि $0 \leq \theta \leq 180$, तो निम्नलिखित में से कौनसा आवश्यक रूप से सत्य है?

$$0 \leq \cos \theta \leq 1$$

A

$$0 \leq \cos \theta \leq 1$$

$$-1 \leq \cos \theta < 0$$

B

$$-1 \leq \cos \theta < 0$$

$$-1 \leq \sin \theta \leq 1$$

C

$$-1 \leq \sin \theta \leq 1$$

$$-1 \leq \cos \theta \leq 1$$

D

$$-1 \leq \cos \theta \leq 1$$

Correct Ans : D

Q No: 109 The number of distinct lines that can be formed by joining three points in a plane is of which of the following is

2020017

एक तल में 3 बिंदुओं के द्वारा जोड़ी जा सकने वाली रेखाओं की संख्या निम्नलिखित में से कौनसी सही है?

100

A

100

B

100

300
300

A

300
120

B

120

Correct Ans : A

Q No. 152 How many four-letter words can be formed by using the letters of the word MPPSB?

2000000

2000000

000

A

000
300

B

300
400

C

400
1600

D

1600

Correct Ans : B

Q No. 153 A train has 12 coaches, 10 doors and 1000. Find the number of different possible combinations in which the train can leave the station, start and end?

2000000

2000000

37

A

37
300

B

300
340

C

340
800

D

800

Correct Ans : D

Q No. 154 Find the number of permutations of length 5 that can be formed using all the letters of the alphabet?

2000000

2000000

120

A

120
9

B

9

C

9000

35.00

35

D

35

Correct Ans : D

Q No : 156 Using all the letters of the word MISSILE, how many words can be formed, which all begin with M and end with E?

2008033

उपरोक्त शब्द में MISSILE का उपयोग करके कितने शब्द बनाए जा सकते हैं जो M से शुरू हों और E से खتم हों?

0

A

0

24

B

24

120

C

120

44

D

44

Correct Ans : B

Q No : 158 If the number diagonals of a regular 'n' sided polygon is 44, then the value of 'n' is:

2008034

यदि एक नियमित 'n' कोन और अणु के विकर्णों की संख्या 44 है, तो 'n' का मान क्या है?

16

A

16

14

B

14

18

C

18

20

D

20

Correct Ans : B

Q No : 167 If $2 \times {}^nP_1 = {}^{n+1}P_4$, then n is equal to:

2008035

यदि $2 \times {}^nP_1 = {}^{n+1}P_4$ हो तो n का मान क्या है:

4

A

4

5

B

5

6

C

6

7

D

7

Correct Answer : D

Q No : 108 Examine the following equation to check which of them is a quadratic equation?

20190817

ranges, for the covered all within aspect it is least what it is kind of qd is mostly

85

A

85

245

B

245

85

C

25

35

D

35

Correct Answer : B

Q No : 109 Examine the following equations to check which of them is a quadratic equation?

20190818

lightbulb exhaust or when after the after to get it the type exhaust to

$$(x+1)^2 - 2 = 5x + 2$$

A

$$(x+1)^2 - 2 = 5x + 2$$

$$x^2 + 1 = 10x - 2$$

B

$$x^2 + 1 = 10x - 2$$

$$(x+1)(x-2) = x^2 + 1$$

C

$$(x+1)(x-2) = x^2 + 1$$

$$x^2 + x^2 + 1 = 10$$

D

$$x^2 + x^2 + 1 = 10$$

Correct Answer : A

Q No : 179 Examine the following equations to check which of them is not a quadratic equation?

20190818

lightbulb exhaust or when after the after to get it the type exhaust to

$$x^2 + 4 = 5x - 6$$

A

$$x^2 + 4 = 5x - 6$$

$$(x+2)(x-3) = 0$$

B

$$(x+2)(x-3) = 0$$

C

$$x(x+3) = x^2 - 3x + 10$$

$$x(x+3) = x^2 - 3x + 10$$

$$x(x+1)(x+2) = x^3 + 3x^2 + 19$$

D

$$x(x+1)(x+2) = x^3 + 3x^2 + 19$$

Correct Answer : C

Q No : 171 If the root of the quadratic equation $x^2 - 3x - 12 = 0$ is $x = 6$, then what is another root?

2004678

यदि द्विघात समीकरण $x^2 - 3x - 12 = 0$ का एक मूल $x = 6$ है, तो दूसरा मूल क्या है?

$$x = 3$$

A

$$x = 3$$

$$x = -2$$

B

$$x = -2$$

$$x = -3$$

C

$$x = -3$$

$$x = 3$$

D

$$x = 3$$

Correct Answer : B

Q No : 172 What is the sum of roots of the quadratic equation $x^2 + 3x - 10 = 0$?

2004679

द्विघात समीकरण $x^2 + 3x - 10 = 0$ के मूलों का योग क्या है?

$$3$$

A

$$4$$

$$5$$

B

$$6$$

$$-3$$

C

$$-9$$

$$2$$

D

$$3$$

Correct Answer : C

Q No : 173 Which of the following condition will satisfy if the roots of the quadratic equation

2004679

$$ax^2 + bx + c = 0, (a \neq 0)$$
 are the same?

यदि द्विघात समीकरण $ax^2 + bx + c = 0, (a \neq 0)$ के दो मूल समान हों तो निम्नलिखित में से सही दो कथन चुनिए।

A

$$b^2 - 4ac = 0$$

$$b^2 - 4ac = 0$$

$$b^2 - 4ac \geq 1$$

B

$$b^2 - 4ac \geq 1$$

$$b^2 - 4ac \geq 0$$

C

$$b^2 - 4ac \geq 0$$

$$b^2 - 4ac \leq 0$$

D

$$b^2 - 4ac \leq 0$$

Correct Answer : A

Q No. 174 If the two roots of a quadratic equation be like $x = 3, x = -4$, then what is the quadratic equation?

2005877

यदि द्विघात समीकरण के दो मूल $x = 3, x = -4$ हों, तो द्विघात समीकरण क्या है?

$$x^2 - 4x + 12 = 0$$

A

$$x^2 - 4x + 12 = 0$$

$$x^2 + x + 12 = 0$$

B

$$x^2 - x + 12 = 0$$

$$x^2 - x + 12 = 0$$

C

$$x^3 - x + 12 = 0$$

$$x^3 - x - 12 = 0$$

D

$$x^3 + x + 12 = 0$$

Correct Answer : B

Q No. 175 The sum of two numbers is 10 and the product of these numbers is 24. What are the two numbers?

2005885

दो संख्याओं का योग 10 है और उन संख्याओं का गुणनफल 24 है। दो संख्याएँ क्या हैं?

7,3

A

7,8

3,8

B

3,8

12,0

C

10,0

8,4

D

8,4

Current Ans : B

Q No. : 176

2019-08-07

What is the value of the expression $\sqrt{30 + \sqrt{30 + \sqrt{30 + \dots}}}$?संकेत: $\sqrt{30 + \sqrt{30 + \sqrt{30 + \dots}}}$ का मान क्या है?

18

A

18

19

B

18

9

C

9

18

D

18

Current Ans : B

Q No. : 177

2019-08-07

What is the value of k , if the two roots of the equation $3x^2 - 20x + k = 0$ are reciprocal to each other?k का मान क्या होगा यदि द्विघात समीकरण $3x^2 - 20x + k = 0$ के दो मूल एक-दूसरे के व्युत्क्रम हैं?

9

A

9

8

B

9

-9

C

-9

1

D

1

Current Ans : B

Q No. : 179

2019-08-07

What are the two solutions of the equation $\frac{x+2}{x+3} + \frac{2}{x+3} = \frac{6x+2}{x^2-9}$?संकेत: $\frac{x+2}{x+3} + \frac{2}{x+3} = \frac{6x+2}{x^2-9}$ के दो समाधान हैं:

-3, 7

A

-3, 7

-3, -7

B

-3, -7

3, 7

C

3, -7

3, 7

D

A, F

Correct Ans : A

Q No : 179
200/698 Value of $\frac{1}{4} \log_2 256 + 2 \log_2 35 - 2 \log_2 5 + 8 \log_2 2$

$$\frac{1}{4} \log_2 256 + 2 \log_2 35 - 2 \log_2 5 + 8 \log_2 2 = 30 \text{ Ans B}$$

$$\log_2 5$$

A

$$\log_2 3$$

$$-\log_2 9$$

B

$$-\log_2 9$$

$$\log_2 \frac{1}{4}$$

C

$$\log_2 \frac{1}{4}$$

$$8$$

D

$$2$$

Correct Ans : B

Q No : 180

200/698 Solve the following and choose the correct option.
If $P = \frac{1}{q^2}$, $Q = 2^y$ and $r = 2^{-x}$ then find $\log_2(PQ^2r)$

$$\text{Transforming into } q^2 \text{ and } 2^y \text{ and } 2^{-x} \text{ gives } q^2$$

$$\text{and } P = \frac{1}{q^2}, Q = 2^y \text{ and } r = 2^{-x} \text{ so, } \log_2(PQ^2r) \text{ then we}$$

$$= \frac{2}{3}x + 2y - x$$

A

$$= \frac{2}{3}x + 2y - x$$

$$\frac{2}{3}x - 2y + x$$

B

$$\frac{2}{3}x - 2y + x$$

$$\frac{2}{3}x - 2y - x$$

C

$$\frac{2}{3}x - 2y - x$$

$$= \frac{2}{3}x + 2y + x$$

D

$$= \frac{2}{3}x + 2y + x$$

Correct Ans : A

Q No : 181
200/698

Find value of x of the following equation

$$\frac{7}{3}x^{2/3}9x^{-2/3} = 1$$

Simplify where if x is not any value

$$\frac{7}{3}x^{2/3}9x^{-2/3} = 1$$

$$\pm \sqrt[3]{\frac{1}{126}}$$

A

$$\pm \sqrt[3]{\frac{1}{126}}$$

$$\pm \sqrt[3]{\frac{1}{5}}$$

B

$$\pm \sqrt[3]{\frac{1}{5}}$$

$$\pm \sqrt[3]{\frac{1}{603}}$$

C

$$\pm \sqrt[3]{\frac{1}{603}}$$

$$\pm \sqrt[3]{\frac{1}{126}}$$

D

$$\pm \sqrt[3]{\frac{1}{126}}$$

Correct Ans : C

Q.26 / 100
Solve the equation: $(\frac{1}{3})^{3x^2-4} = 1$

$$\text{where x is any value}$$

$$\pm \frac{1}{13}$$

A

$$\pm \frac{1}{13}$$

$$\pm \frac{1}{13}$$

B

$$\pm \frac{1}{13}$$

$$\pm \frac{1}{23}$$

C

$$\pm \frac{1}{23}$$

$$1$$

D

$$1$$

Correct Ans : A

Q No. 101 Evaluate 15^3 using the binomial theorem.

200/0/0

(15)³ को $(10+5)$ के रूप में लेते हैं।

(15)³ को $(10+5)$ के रूप में लेते हैं।

200/0/0

A

200/0/0

200/0/0

B

200/0/0

200/0/0

C

200/0/0

200/0/0

D

200/0/0

Correct Ans : B

Q No. 102 Find the number of terms in $(1 + 2x + x^2)^{20}$

200/0/0

$(1 + 2x + x^2)^{20}$ में कुल कितने पद हैं?

100

A

100

200

B

200

100

C

100

200

D

200

Correct Ans : C

Q No. 103 In the expansion of $(1 + x)^{2n-1}$, the coefficient of x is denoted by a , then the value of a_{n-1} is

200/0/0

$(1 + x)^{2n-1}$ के प्रसार में, x के गुणांक को a द्वारा निरूपित किया जाता है, तो a_{n-1} का मान क्या है?

1

A

1

0

B

2

0

C

2

D

0

8

Correct Ans : D

Q No : 108

2006907

Find the coefficient of x^2 in the expansion of $(\frac{1-x^2}{1-x})^3$ is: $(\frac{1-x^2}{1-x})^3$ के प्रसार में x^2 का गुणांक ज्ञात कीजिए।

15

A

16

18

B

16

12

C

12

9

D

9

Correct Ans : A

Q No : 107

2005893

If three points A(4, -1), B(3, 2) and C(a, 8) are such that AB = BC, then a is

तीनों बिंदु A(4, -1), B(3, 2) और C(a, 8) इस प्रकार हैं कि AB = BC, तब a =

-3, 5

A

-3, 9

3, -5

B

3, -9

-3, -5

C

-3, -9

3, 5

D

3, 9

Correct Ans : A

Q No : 106

2005894

The distance of the point (b cos θ , b sin θ) from origin is:बिंदु (b cos θ , b sin θ) की मूल बिंदुओं से दूरी है:b sin θ

A

b sin θ b cos θ

B

b cos θ

b

C

2b

D

b

9

Correct Ans : D

Q No : 108 If a point P is equidistant from the point (3, 8) and (5, 2), then co-ordinates of P will be :
20050805

Letting x, y of P at (x, y) is equidistant from $(3, 8)$ and $(5, 2)$ is given by

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

$$(x-3)^2 + (y-8)^2 = (x-5)^2 + (y-2)^2$$

Correct Ans : A

Q No : 109 The equation of the locus of a point whose distance from $(a, 0)$ is equal to its distance from point $(0, b)$ is :
20050807

Letting x, y of a point P at (x, y) is equidistant from $(a, 0)$ and $(0, b)$ is given by

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

$$(x-a)^2 + (y-0)^2 = (x-0)^2 + (y-b)^2$$

Correct Ans : A

Q No : 100 If the point P is equidistant from the points $A(1, 1)$, $B(4, 3)$ and $C(5, -1)$ then PB is :
20050808

Letting x, y of a point P at (x, y) is equidistant from $A(1, 1)$, $B(4, 3)$ and $C(5, -1)$ is given by

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

$$(x-1)^2 + (y-1)^2 = (x-4)^2 + (y-3)^2$$

Correct Ans : B

9

Correct Ans : B

Q.No. 190 The points $(a, 4)$, $(3, 5)$, $(b^2, 4)$ are

2005690

☐ $(a, 4)$, $(3, 5)$, $(b^2, 4)$ are

☐ Vertices of an equilateral triangle

A

☐ or none of the above

☐ Vertices of a right angled triangle

B

☐ or none of the above

☐ Vertices of an isosceles triangle

C

☐ or nothing of the above

☐ Call none

D

☐ or none

Correct Ans : B

Q.No. 191 In what ratio, x-y-axis divides the line joining the points $(2, 4, 5)$ and $(-4, 3, -2)$.

2005719

☐ $(2, 4, 5)$ and $(-4, 3, -2)$ at their mid point at, x-y-axis is not a line of the axis

☐ 1 : 3

A

☐ 1 : 5

☐ 1 : 6

B

☐ 1 : 5

☐ 3 : 4

C

☐ 3 : 4

☐ 5 : 2

D

☐ 5 : 2

Correct Ans : B

Q.No. 192 Point $(-2, 4, 5)$, $(3, -4, -8)$ and $(5, -2, -4)$ are

2005734

☐ $(-2, 4, 5)$, $(3, -4, -8)$ and $(5, -2, -4)$ are

☐ Call none

A

☐ or none

☐ Vertices of an equilateral triangle

B

☐ or none of the above

☐ Vertices of a right angled triangle

C

☐ or none of the above

☐ Vertices of an isosceles triangle

D

☐ or nothing of the above

Correct Ans : A

Q No : 198 The $\left(\frac{1}{2}, \frac{1}{2}, \alpha\right)$ are the direction cosines of a line then value of α is :

2005219

We $\left(\frac{1}{2}, \frac{1}{2}, \alpha\right)$ are the direction cosines of a line then value of α is :

$$\frac{1}{\sqrt{2}}$$

A

$$\frac{1}{\sqrt{3}}$$

$$\frac{\sqrt{2}}{2}$$

B

$$\frac{\sqrt{3}}{2}$$

$$\frac{\sqrt{2}}{3}$$

C

$$\frac{\sqrt{3}}{3}$$

$$\frac{1}{\sqrt{3}}$$

D

$$\frac{1}{\sqrt{2}}$$

Correct Ans : C

Q No : 199 The number of straight lines that are equally inclined to the three coordinate axes is :

2005219

Directions: Write out down why is call you hard of ear ?

$$3$$

A

$$2$$

$$4$$

B

$$6$$

$$5$$

C

$$8$$

$$7$$

D

$$9$$

Correct Ans : B

Q No : 197 The distance of the point (X, Y, Z) from origin is

2005217

We (x, y, z) are the point :

$$\sqrt{xy}$$

A

$$\sqrt{yz}$$

$$\sqrt{xz}$$

B

$$\sqrt{yz}$$

$$\sqrt{xz}$$

C

$$\sqrt{xy}$$

$$\sqrt{10}$$

B

D

E

Correct Ans : C

Q No. 198 The direction ratios of the line $x - y + z + 10 = 0 = 3x + 5y + 6z + 1000$ is

2005108

$$(10, -1, 1)$$

A, -6, 1

A

1, -6, 1

3, 5, -9

B

3, 5, -9

$$\frac{1}{\sqrt{10}}, \frac{1}{\sqrt{10}}, \frac{1}{\sqrt{10}}$$

C

$$\frac{1}{\sqrt{10}}, \frac{1}{\sqrt{10}}, \frac{1}{\sqrt{10}}$$

$$\frac{1}{\sqrt{10}}, \frac{1}{\sqrt{10}}, \frac{1}{\sqrt{10}}$$

D

$$\frac{1}{\sqrt{10}}, \frac{1}{\sqrt{10}}, \frac{1}{\sqrt{10}}$$

Correct Ans : B

Q No. 199 If a line makes angles $\alpha, \beta, \gamma, \delta$ with the diagonals of a cube, then $\sin^2\alpha + \sin^2\beta + \sin^2\gamma + \sin^2\delta =$

2005108

$$\text{यदि एक रेखा, एक घन के चार विकर्णों के साथ } \alpha, \beta, \gamma, \delta \text{ कोण बनाती हो तब } \sin^2\alpha + \sin^2\beta + \sin^2\gamma + \sin^2\delta =$$

1

2

3

A

1

2

3

B

1

2

3

C

1

2

3

D

1

2

3

Correct Ans : C

Q No. 200 The equation of the plane through the intersection point of the planes $x + y + z + 1 = 0$ and $2x + 3y + 4z + 5 = 0$, and parallel to $x + y + z = 0$ is

2005108

$$x + y + z + 1 = 0 \text{ or } x + y + z + 2 = 0 \text{ or } x + y + z + 3 = 0 \text{ or } x + y + z + 4 = 0$$

x + y + z + 1 = 0

A ☐ B ☐ C ☐ D ☐

$$3x - 4 + 8 = 0$$

$$y - 3x + 8 = 0$$

B ☐

$$y - 3x + 8 = 0$$

$$3y - 3x + 8 = 0$$

C ☐

$$3y - 3x + 8 = 0$$

$$y + 3x + 8 = 0$$

D ☐

$$y + 3x + 8 = 0$$

Correct Ans : B

Q No. 702
2005128 The equation of the plane containing the line $\frac{x+2}{-2} = \frac{y-1}{2} = \frac{z+5}{3}$ and the point (3, 1, -7) is

Find $\vec{r}_1(0, 1, -7)$ and $\vec{r}_2 = \frac{x+2}{-2} = \frac{y-1}{2} = \frac{z+5}{3}$ at point and vector at direction $\vec{r}$.

$$x + y + z = 2$$

A ☐

$$x + y + z = 1$$

$$x + y + z = 2$$

B ☐

$$x + y + z = 3$$

$$x + y + z = 0$$

C ☐

$$x + y + z = 0$$

$$x + 7y - 7z = 4$$

D ☐

$$x + 7y - 7z = 4$$

Correct Ans : C

Q No. 703
2005174 The equation of the line passing through the point (1, 2, -4) and perpendicular to the vector $\vec{r} = \frac{x-1}{-2} = \frac{y-12}{2} = \frac{z-15}{3}$ and $\vec{r} = \frac{x-1}{2} = \frac{y-15}{3} = \frac{z-4}{-2}$ will be

Find $\vec{r}_1(1, 2, -4)$ if vector and $\vec{r}_2 = \frac{x-1}{-2} = \frac{y-12}{2} = \frac{z-15}{3}$ and $\vec{r} = \frac{x-1}{2} = \frac{y-15}{3} = \frac{z-4}{-2}$ is vector $\vec{r}$ is direction $\vec{r}$.

$$\frac{x-1}{2} = \frac{y-1}{4} = \frac{z+6}{5}$$

A ☐

$$\frac{x-1}{2} = \frac{y-1}{4} = \frac{z+6}{5}$$

$$\frac{x-1}{-2} = \frac{y-1}{2} = \frac{z+6}{5}$$

B ☐

$$\frac{x-1}{-2} = \frac{y-1}{2} = \frac{z+6}{5}$$

$$\frac{x-1}{2} = \frac{y-1}{3} = \frac{z+6}{5}$$

C ☐

$$\frac{x-1}{2} = \frac{y-1}{3} = \frac{z+6}{5}$$

$$\frac{x-1}{2} = \frac{y-1}{5} = \frac{z+6}{-4}$$

D ☐

$$\frac{0+1}{1} = \frac{0+1}{0} = \frac{1+0}{-1}$$

Correct Answer: A

Q No. 300 The perimeter of triangle with sides $(x + 4) + \sqrt{2}$, $(x - 3) + 2\sqrt{2}$ and $(x + 5)$ is

2000194

$$(x + 4) + (x - 3) + (x + 5) = 3x + 6 \text{ and } (x + 4) + (x - 3) + (x + 5) = 3x + 6$$

$$\sqrt{58}$$

A

$$\sqrt{58}$$

$$\sqrt{158}$$

B

$$\sqrt{158}$$

$$\sqrt{108}$$

C

$$\sqrt{108}$$

$$\sqrt{48}$$

D

$$\sqrt{48}$$

Correct Answer: B

Q No. 304 If one side of a square represented by the vector $(x + 4) + 2\sqrt{2}$, then the area of square is :

2000194

$$(x + 4) + 2\sqrt{2} \text{ and } (x + 4) + 2\sqrt{2} \text{ are perpendicular to each other, so the area of square is } (x + 4)^2 + (2\sqrt{2})^2 = x^2 + 8x + 20$$

$$18$$

A

$$18$$

$$18$$

B

$$18$$

$$18$$

C

$$18$$

$$18$$

D

$$18$$

Correct Answer: A

Q No. 308 If $\vec{a} = 2\hat{i} + 3\hat{j}$ and $\vec{b} = 3\hat{i} - \hat{j}$, then unit vector along $\vec{a} + \vec{b}$ is

2000194

$$\text{We have } \vec{a} = 2\hat{i} + 3\hat{j} \text{ and } \vec{b} = 3\hat{i} - \hat{j} \text{, then } \vec{a} + \vec{b} = 5\hat{i} + 2\hat{j} \text{ and } |\vec{a} + \vec{b}| = \sqrt{25 + 4} = \sqrt{29}$$

$$\frac{10}{\sqrt{29}}$$

A

$$\frac{10}{\sqrt{29}}$$

$$1 + \frac{1}{2}$$

B

$$1 + \frac{1}{2}$$

$$1 + \frac{1}{2}$$

C

$$\frac{\sqrt{2}}{2} + \frac{1}{2}$$

$$\frac{\sqrt{2}}{2} + \frac{1}{2}$$

$$\frac{1-\sqrt{2}}{2}$$

B

$$\frac{1-\sqrt{2}}{2}$$

Correct Answer: A

Q No. 296 The points having position vectors $\vec{a} + \vec{b} + \vec{c}$, $\vec{b} + \vec{c} + \vec{d}$, and $\vec{c} + \vec{d} + \vec{e}$ are :

2005128

Along straight line after $\vec{a} + \vec{b} + \vec{c} = \vec{d}$, $\vec{b} + \vec{c} + \vec{d} = \vec{e}$ after $\vec{c} + \vec{d} + \vec{e} = \vec{f}$

Vertices of a right angled triangle

A

no such thing is not

Vertices of an equilateral triangle

B

no such thing is not

Vertices of an isosceles triangle

C

no such thing is not

Collinear

D

collinear

Correct Answer: B

Q No. 307 The value of k for which the vectors $\vec{a} = \hat{i} - \hat{j}$ and $\vec{b} = -\hat{i} + k\hat{j}$ are collinear, is :

2005127

1, as we know that the after $\vec{a} = \hat{i} - \hat{j}$ and $\vec{b} = -\hat{i} + k\hat{j}$ collinear if :

$$\frac{1}{-1} = \frac{k}{-1}$$

A

$$\frac{1}{-1} = \frac{k}{-1}$$

$$\frac{1}{-1} = \frac{k}{-1}$$

B

$$\frac{1}{-1} = \frac{k}{-1}$$

$$\frac{1}{-1} = \frac{k}{-1}$$

C

$$\frac{1}{-1} = \frac{k}{-1}$$

$$\frac{1}{-1} = \frac{k}{-1}$$

D

$$\frac{1}{-1} = \frac{k}{-1}$$

Correct Answer: B

Q No. 308 If a triangle ABC, $\vec{a} = \hat{i} + \hat{j} + \hat{k}$, then $\vec{a} \cdot \vec{a} + \vec{b} \cdot \vec{b} =$

2005126

16, then $\vec{a} \cdot \vec{b} = \vec{b} \cdot \vec{c} = \vec{c} \cdot \vec{a} = \vec{a} \cdot \vec{a} + \vec{b} \cdot \vec{b} =$

A

$$\frac{1}{2}$$

$$\frac{100}{\sqrt{2}}$$

$$-\frac{100}{\sqrt{2}}$$

B

$$-\frac{100}{\sqrt{2}}$$

$$\frac{100}{\sqrt{2}}$$

E

$$\frac{100}{\sqrt{2}}$$

$$-\frac{100}{\sqrt{2}}$$

D

$$-\frac{100}{\sqrt{2}}$$

Correct Answer: E

Q No. 109 The $(2, 0) + (2, 0) + (2, 0)$ is:

2000149

$$(2, 0) + (2, 0) + (2, 0)$$

$$3$$

A

$$3$$

$$\frac{3}{2}$$

B

$$\frac{3}{2}$$

$$0$$

C

$$0$$

$$-3$$

D

$$-3$$

Correct Answer: A

Q No. 110 The angle between the vectors $(3i + 4j + 5k)$ and $((3i - 4j + 5k))$ is:

2000149

$$\cos^{-1} \left(\frac{3}{5} \right) \text{ और } (3i - 4j + 5k) \text{ के बीच कोण है}$$

$$\cos^{-1} \left(\frac{3}{5} \right)$$

A

$$\cos^{-1} \left(\frac{3}{5} \right)$$

$$\cos^{-1} \left(\frac{3}{5} \right)$$

B

$$\cos^{-1} \left(\frac{3}{5} \right)$$

$$\cos^{-1} \left(\frac{3}{5} \right)$$

C

$$\cos^{-1} \left(\frac{3}{5} \right)$$

D

$$\cos^{-1} \left(\frac{3}{5} \right)$$

$$\cos^{-1}\left(\frac{1}{3}\right)$$

Correct Answer: B

Q No : 211 Answered Correctly
 A unit vector which is perpendicular to $\vec{i} + \vec{j} + \vec{k}$ and $-\vec{i} + \vec{j} + \vec{k}$ is

where $\vec{i} + \vec{j} + \vec{k} = \sqrt{3} \hat{a}$, $-\vec{i} + \vec{j} + \vec{k} = \sqrt{2} \hat{b}$ and $\hat{a} \cdot \hat{b} = \frac{1}{\sqrt{6}}$

$$\frac{1}{\sqrt{2}}(\hat{a} - \hat{b})$$

A

$$\frac{1}{\sqrt{2}}(\hat{a} + \hat{b})$$

$$\frac{1}{\sqrt{2}}(-\hat{a} + \hat{b})$$

B

$$\frac{1}{\sqrt{2}}(-\hat{a} + \hat{b})$$

$$\frac{1}{\sqrt{2}}(\hat{a} + \hat{b} + \hat{c})$$

C

$$\frac{1}{\sqrt{2}}(\hat{a} + \hat{b} + \hat{c})$$

$$\frac{1}{\sqrt{2}}(\hat{a} + \hat{b})$$

D

$$\frac{1}{\sqrt{2}}(\hat{a} + \hat{b})$$

Correct Answer: B

Q No : 212 Answered Correctly
 $\vec{a}(\vec{b} \times \vec{c}), \vec{b}(\vec{c} \times \vec{a}), \vec{c}(\vec{a} \times \vec{b})$

$$(\vec{a} \times \vec{b}), \vec{c}(\vec{a} \times \vec{b}), \vec{a}(\vec{b} \times \vec{c})$$

$$\vec{a}, \vec{b} = \vec{c}, \vec{c} = \vec{a}$$

A

$$\vec{a}, \vec{b} = \vec{c}, \vec{c} = \vec{a}$$

$$\vec{b}, \vec{c} = \vec{a}, \vec{a} = \vec{b}$$

B

$$\vec{b}, \vec{c} = \vec{a}, \vec{a} = \vec{b}$$

$$\vec{a}, \vec{b} = \vec{c}, \vec{c} = \vec{a}$$

C

$$\vec{a}, \vec{b} = \vec{c}, \vec{c} = \vec{a}$$

$$\vec{a}, \vec{b} = \vec{c}, \vec{c} = \vec{a}, \vec{a} = \vec{b}$$

D

$$\vec{a}, \vec{b} = \vec{c}, \vec{c} = \vec{a}, \vec{a} = \vec{b}$$

Correct Answer: B

Q No : 213 Answered Correctly
 $f(x) = \frac{2-x}{(x-1)^2}$ then $f'(x) \cos(2x)$ =

$$\frac{2-x}{(x-1)^2} \cos(2x)$$

A

$$\frac{2-x}{(x-1)^2}$$

100.00

100.00

B

100.00

100.00

C

100.00

100.00

D

100.00

Correct Ans : C

Q No. 214

answered

If $f(x) = \cos(\log x)$, then $f(x)f(y) = \frac{1}{2} \left[f\left(\frac{x}{y}\right) + f(xy) \right] +$

$$\text{where } f(x) = \cos(\log x), \text{ then } f(x)f(y) = \frac{1}{2} \left[f\left(\frac{x}{y}\right) + f(xy) \right] +$$

-4

A

-2

1/2

B

1/2

1/2

C

-2

0

D

0

Correct Ans : B

Q No. 215

answered

Domain of the function $f(x) = \sin^{-1}(3 + 3x + 2x^2)/\pi$

$$f(x) = \sin^{-1}(3 + 3x + 2x^2)/\pi \text{ then } f :$$

$$[-\pi, \pi]$$

A

$$[-\pi, \pi]$$

$$[-1, 1]$$

B

$$[-1, 1]$$

$$\left[-\frac{\pi}{2}, \pi\right]$$

C

$$\left[-\frac{\pi}{2}, \pi\right]$$

$$(-\pi, -\frac{\pi}{2}) \cup (2, \pi)$$

D

$$(-\pi, -\frac{\pi}{2}) \cup (2, \pi)$$

Correct Ans : B

$$\frac{1.99}{1.76}$$

$$\frac{1.99}{1.76}$$

$$\frac{1}{1.76}$$

B

$$\frac{1}{1.76}$$

Correct Ans : B

Q No. 219
2009488 If $\lim_{x \rightarrow 0} \frac{x^2 - x^4}{x^2(x^2 - 2)} = -1/8$ then

$$\lim_{x \rightarrow 0} \frac{x^2 - x^4}{x^2(x^2 - 2)} = -1/8$$

$$x = 1$$

A

$$x = 1$$

$$x = 0$$

B

$$x = 0$$

$$x = 0$$

C

$$x = 0$$

$$x = \frac{1}{2}$$

D

$$x = \frac{1}{2}$$

Correct Ans : A

Q No. 220
2009489 $\lim_{x \rightarrow 0^+} \left(1 + \frac{1}{x}\right)^x =$

$$\lim_{x \rightarrow 0^+} \left(1 + \frac{1}{x}\right)^x =$$

$$e$$

A

$$e$$

$$\frac{1}{e}$$

B

$$\frac{1}{e}$$

$$2e$$

C

$$2e$$

$$e^2$$

D

$$e^2$$

Correct Ans : B

Q No. 221
2009738 $\int \frac{dx}{\sin^2 x \cos x} = 7$

$$\int \frac{dx}{25x^2 + 100x} = ?$$

$$\frac{\ln(2x)}{5} + C$$

A

$$\frac{\ln(2x)}{5} + C$$

$$\frac{\ln(2x)}{5} + C$$

B

$$\frac{\ln(2x)}{5} + C$$

$$-\frac{\ln(2x)}{5} + C$$

C

$$-\frac{\ln(2x)}{5} + C$$

$$-\frac{\ln(2x)}{5} + C$$

D

$$-\frac{\ln(2x)}{5} + C$$

Correct Ans : B

Q No. 222
2009713 $\int \frac{dx}{x^2 + 25x + 125} = ?$

$$\int \frac{dx}{x^2 + 25x + 125} = ?$$

$$\frac{1}{5} \left[x^{5/2} - (x - 25)^{5/2} \right] + C$$

A

$$\frac{1}{5} \left[x^{5/2} - (x - 25)^{5/2} \right] + C$$

$$\frac{1}{5} \left[x^{5/2} - (x - 25)^{5/2} \right] + C$$

B

$$\frac{1}{5} \left[x^{5/2} - (x - 25)^{5/2} \right] + C$$

$$\frac{1}{5} \left[x^{5/2} + (x - 25)^{5/2} \right] + C$$

C

$$\frac{1}{5} \left[x^{5/2} + (x - 25)^{5/2} \right] + C$$

$$\frac{1}{5} \left[x^{5/2} + (x - 25)^{5/2} \right] + C$$

D

$$\frac{1}{5} \left[x^{5/2} + (x - 25)^{5/2} \right] + C$$

Correct Ans : A

Q No. 223
2009713 $\int \frac{dx}{x^2 + 25x + 125} = ?$

$$\int \frac{dx}{25x^2 - 100x + 125} =$$

$$\log\left(\frac{x}{5} + \frac{1}{5}\right) + c$$

A

$$\log\left(\frac{x}{5} + \frac{1}{5}\right) + c$$

$$\frac{1}{5} \log\left(\frac{x}{5} + \frac{1}{5}\right) + c$$

B

$$\frac{1}{5} \log\left(\frac{x}{5} + \frac{1}{5}\right) + c$$

$$\log\left(\frac{x}{5} - \frac{1}{5}\right) + c$$

C

$$\log\left(\frac{x}{5} - \frac{1}{5}\right) + c$$

$$\frac{1}{5} \log\left(\frac{x}{5} - \frac{1}{5}\right) + c$$

D

$$\frac{1}{5} \log\left(\frac{x}{5} - \frac{1}{5}\right) + c$$

Correct Answer : B

Q No : 128
2609724 $\int \frac{1 - \tan x}{1 + \tan x} dx =$

$$\int \frac{1 - \tan x}{1 + \tan x} dx =$$

$$\log\left(\frac{x}{2} - x\right) + c$$

A

$$\log\left(\frac{x}{2} - x\right) + c$$

$$\log\left(\frac{x}{2} - x\right) + c$$

B

$$\log\left(\frac{x}{2} - x\right) + c$$

$$\log\left(\frac{x}{2} - x\right) + c$$

C

$$\log\left(\frac{x}{2} - x\right) + c$$

$$\log\left(\frac{x}{2} + x\right) + c$$

D

$$\log\left(\frac{x}{2} + x\right) + c$$

Correct Answer : D

Q No : 129
2609728 $\int \frac{dx}{1 + e^x} =$

$$\int \frac{dx}{1+e^x}$$

$$\log(1+e^x)$$

A

$$\log(1+e^x)$$

$$-\log(1+e^{-x})$$

B

$$-\log(1+e^{-x})$$

$$\log(1+e^{-x})$$

C

$$\log(1+e^{-x})$$

$$-\log(1+e^{-x})$$

D

$$-\log(1+e^{-x})$$

Correct Answer: B

Q No. 108
20080717 $\int \frac{3x^2}{x^2+4} dx =$

$$\int \frac{3x^2}{x^2+4} dx =$$

$$\tan^{-1}(x^2) + c$$

A

$$\tan^{-1}(x^2) + c$$

$$\log(x^2+4) + c$$

B

$$\log(x^2+4) + c$$

$$2 \tan^{-1}(x^2) + c$$

C

$$2 \tan^{-1}(x^2) + c$$

$$\log(x^2+4) + c$$

D

$$\log(x^2+4) + c$$

Correct Answer: B

Q No. 107
20080718 $\int \frac{\cos(x)}{\sqrt{x}} dx =$

$$\int \frac{\cos(x)}{\sqrt{x}} dx =$$

$$2 \cos \sqrt{x} + c$$

A

$$2 \cos \sqrt{x} + c$$

B

$$-\log \frac{1}{2}$$

$$\frac{0}{2} \log 2$$

D

$$\frac{0}{2} \log 2$$

Correct Answer: A

Q No : 228
Answer: A $\int_0^{1/2} \log(1 + \tan(x)) dx =$

$$\int_0^{1/2} \log(1 + \tan(x)) dx =$$

$$\frac{0}{4} \log 2$$

A

$$\frac{0}{4} \log 2$$

$$\frac{0}{2} \log \frac{1}{2}$$

B

$$\frac{0}{4} \log \frac{1}{2}$$

$$\frac{0}{2} \log 2$$

C

$$\frac{0}{2} \log 2$$

$$\frac{0}{2} \log \frac{1}{2}$$

D

$$\frac{0}{2} \log \frac{1}{2}$$

Correct Answer: E

Q No : 231
Answer: B The value set of y of the differential equation $\sqrt{\frac{dy}{dx}} + 4 \frac{dy}{dx} - 12 = 0$ is $y = 0$ and

$$\text{answer: option } \sqrt{\frac{dy}{dx}} + 4 \frac{dy}{dx} - 12 = 0 \text{ is not valid, so we take } y =$$

$$0, \frac{1}{2}$$

A

$$0, \frac{1}{2}$$

$$3, 5$$

B

$$3, 5$$

$$1, 3$$

C

$$1, 3$$

$$1, 3$$

D

$$1, 3$$

Correct Answer: B

Q No. 232 A coin is tossed and a die is rolled. The probability that the coin shows the head and die shows 6 is :

2005793

one head and one six $\frac{1}{12}$, one six and no head $\frac{1}{12}$, one six and no head $\frac{1}{12}$, one six and no head $\frac{1}{12}$: $\frac{1}{12}$

$$\frac{1}{12}$$

A

$$\frac{1}{18}$$

$$\frac{1}{12}$$

B

$$\frac{1}{12}$$

$$\frac{1}{2}$$

C

$$\frac{1}{2}$$

$$\frac{1}{6}$$

D

$$\frac{1}{6}$$

Correct Ans : B

Q No. 233 The probability that an ordinary year has 53 Sundays is :

2005794

one week of 53 Sundays at all : $\frac{2}{7}$

$$\frac{2}{7}$$

A

$$\frac{2}{7}$$

$$\frac{1}{7}$$

B

$$\frac{1}{7}$$

$$\frac{3}{7}$$

C

$$\frac{1}{7}$$

$$\frac{1}{7}$$

D

$$\frac{1}{7}$$

Correct Ans : B

Q No. 234 Two dice are thrown. The probability that the total score is a prime number is :

2005795

2 and 3, 3 and 4, 4 and 5, 5 and 6, 6 and 7, 7 and 8, 8 and 9, 9 and 10, 10 and 11, 11 and 12 : $\frac{1}{6}$

$$\frac{1}{6}$$

A

$$\frac{1}{6}$$

$$\frac{1}{6}$$

$$\frac{5}{12}$$

$$\frac{5}{12}$$

B

$$\frac{5}{12}$$

$$\frac{5}{12}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

C

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{5}$$

$$\frac{1}{5}$$

D

$$\frac{1}{5}$$

$$\frac{1}{5}$$

Correct Ans : B

Q No. 198 The probability that a leap year have 53 Sundays is :

2009787

one after 4 to three (in all years).

$$\frac{3}{12}$$

$$\frac{3}{12}$$

A

$$\frac{3}{12}$$

$$\frac{3}{12}$$

$$\frac{4}{19}$$

$$\frac{4}{19}$$

B

$$\frac{4}{19}$$

$$\frac{4}{19}$$

$$\frac{1}{7}$$

$$\frac{1}{7}$$

C

$$\frac{1}{7}$$

$$\frac{1}{7}$$

$$\frac{3}{7}$$

$$\frac{3}{7}$$

D

$$\frac{3}{7}$$

$$\frac{3}{7}$$

Correct Ans : B

Q No. 199 In a single throw of two dice, the probability of getting sum more than 7 is :

2009788

if not all every year is the 4 to three (in all years).

$$\frac{7}{36}$$

$$\frac{7}{36}$$

A

$$\frac{7}{36}$$

$$\frac{7}{36}$$

$$\frac{7}{12}$$

$$\frac{7}{12}$$

B

$$\frac{7}{12}$$

$$\frac{5}{12}$$

$$\frac{5}{12}$$

C

$$\frac{5}{12}$$

$$\frac{5}{12}$$

$$\frac{5}{12}$$

D

$$\frac{5}{12}$$

$$\frac{5}{12}$$

Correct Answer: B

Q. No. : 217 Two dice are tossed. The probability of getting a sum 9 is :

2005798

If not all good to this is not all off as $\frac{7}{12}$.

$$\frac{7}{12}$$

$$\frac{7}{12}$$

A

$$\frac{7}{12}$$

$$\frac{7}{12}$$

$$\frac{5}{12}$$

B

$$\frac{5}{12}$$

$$\frac{5}{12}$$

$$\frac{1}{6}$$

C

$$\frac{1}{6}$$

$$\frac{1}{6}$$

$$\frac{1}{6}$$

D

$$\frac{1}{6}$$

$$\frac{1}{6}$$

Correct Answer: C

Q. No. : 218 A and B toss a coin alternately, the first to show a head being the winner. If A starts the game, the chance of his winning is :

2005798

A and B toss a coin alternately, the first to show a head being the winner. If A starts the game, the chance of his winning is :

$$\frac{4}{13}$$

$$\frac{4}{13}$$

A

$$\frac{4}{13}$$

$$\frac{4}{13}$$

$$\frac{1}{2}$$

B

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

C

$$\frac{1}{2}$$

$$\frac{1}{2}$$

D

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

Correct Ans : B

Q No. 239 Two candidate driven over by one of random from a pack of 52 cards. The probability that both of them are king is :

2009795

so not all are king if it is not before you it hand not 5, so not 5 away (it all others 5).

$$\frac{2}{13}$$

A

$$\frac{2}{13}$$

B

$$\frac{1}{160}$$

C

$$\frac{1}{160}$$

D

$$\frac{1}{225}$$

$$\frac{1}{225}$$

E

$$\frac{16}{225}$$

F

$$\frac{16}{225}$$

Correct Ans : C

Q No. 240 $\sum (x_i - \bar{x})^2 = 16$, $\sum (y_i - \bar{y})^2 = 25$ and $\sum (x_i - \bar{x})(y_i - \bar{y}) = 20$ then $\text{Correlation coefficient}$ is :

2009803

for $\sum (x_i - \bar{x})^2 = 16$, $\sum (y_i - \bar{y})^2 = 25$ and $\sum (x_i - \bar{x})(y_i - \bar{y}) = 20$ then $\text{Correlation coefficient}$ is :

$$0.30$$

A

$$0.30$$

$$0.60$$

B

$$0.60$$

$$0.2$$

C

$$0.2$$

$$0.5$$

D

$$0.5$$

Correct Ans : B

Q No. 241 In the relation of two variables x and y respectively 9 and 16 and their co-variance is 8, then coefficient of correlation is :

2009803

for $\sum (x_i - \bar{x})^2 = 9$ and $\sum (y_i - \bar{y})^2 = 16$ and $\sum (x_i - \bar{x})(y_i - \bar{y}) = 8$ then $\text{coefficient of correlation}$ is :

$$\frac{2}{3}$$

A

$$\frac{2}{3}$$

$$\frac{1}{\sqrt{2}}$$

$$\frac{1}{2\sqrt{2}}$$

B

$$\frac{1}{2\sqrt{2}}$$

$$\frac{1}{2\sqrt{2}}$$

C

$$\frac{1}{2\sqrt{2}}$$

$$\frac{1}{2\sqrt{2}}$$

D

$$\frac{1}{2\sqrt{2}}$$

Correct Answer : B

Q No. 362

Answered

The order and degree of the differential equation $\frac{d^2y}{dx^2} + \left(\frac{dy}{dx}\right)^{1/2} + x^{1/2} = 0$ are:order infinite $\frac{d^2y}{dx^2} + \left(\frac{dy}{dx}\right)^{1/2} + x^{1/2} = 0$ all all not not 1

A, 2

A

1, 2

1, 4

B

1, 4

1, 4

C

1, 4

1, 2

D

1, 2

Correct Answer : A

Q No. 363

Answered

The differential equation $\frac{d^2y}{dx^2} + x^2 \frac{dy}{dx} + xy + x^2 = 0$ is of the following type:order infinite $\frac{d^2y}{dx^2} + x^2 \frac{dy}{dx} + xy + x^2 = 0$ linear homogeneous not not all all

linear

A

linear

homogeneous

B

linear

order two, degree two

C

all all, not all

D

degree two, order two

and 99, 499 is

Correct Ans : D

Q No : 284

2009607

The order and degree of the differential equation $y = \frac{1 + \left(\frac{dy}{dx}\right)^{1/2}}{\frac{dy}{dx}}$ are respectively

Correct response: $y = \frac{1 + \left(\frac{dy}{dx}\right)^{1/2}}{\frac{dy}{dx}}$ is of the 2nd order, 2

A, 2

B, 2

A, 3

B, 3

A, 1

B, 1

A, 2

B, 2

A, 2

B, 2

Correct Ans : A

Q No : 285

2009608

The order of differential equation of all parabolas having vertex parallel to x-axis

is 2 as it contains four real and not all real is order of differential eq

2

3

2

3

2

3

2

3

2

3

2

Correct Ans : C

Q No : 286

2009609

$y = 4 \cos 3x$ is a solution of which differential equation

$y = 4 \cos 3x$, the order of differential eq is

$$\frac{dy}{dx} + 3y = 0$$

$$\frac{dy}{dx} + 3y = 0$$

$$\frac{dy}{dx} - 3y = 0$$

$$\frac{dy}{dx} - 3y = 0$$

$$\frac{dy}{dx} + 3y = 2$$

$$\frac{dy}{dx} + 3y = 2$$

$$\frac{dy}{dx} - 3y = 2$$

D

$$\frac{dy}{dx} - 3y = 2$$

Correct Ans : C

Q No. 347 The differential equation of the family of curves $y = e^{ax} (x + b)$ is :

200913

Correct Ans : A (see below)

$$\frac{dy}{dx} - y = 0$$

A

$$\frac{dy}{dx} - y = 0$$

$$\frac{dy}{dx} + y = 0$$

B

$$\frac{dy}{dx} + y = 0$$

$$\frac{dy}{dx} + 2y = 0$$

C

$$\frac{dy}{dx} + 2y = 0$$

$$\frac{dy}{dx} + 3y = 0$$

D

$$\frac{dy}{dx} + 3y = 0$$

Correct Ans : A

Q No. 348 Which of the following differential equation is represented by family of curves $y = e^x (A \cos x + B \sin x)$

200914

Correct Ans : A (see below)

$$\frac{dy}{dx} = 2 \frac{dy}{dx} - y$$

A

$$\frac{dy}{dx} = 2 \frac{dy}{dx} - y$$

$$\frac{dy}{dx} = 2 \frac{dy}{dx} - 2y$$

B

$$\frac{dy}{dx} = 2 \frac{dy}{dx} - 3y$$

C

$$\frac{dy}{dx} = 2 \frac{dy}{dx} - 2y$$

2005949

At the South end of a beam with mass M , a mass m is hung as shown.

$$\frac{M}{2}$$

A

$$\frac{M}{3}$$

B

$$\frac{M}{4}$$

C

$$\frac{M}{5}$$

D

$$\frac{M}{6}$$

E

$$\frac{M}{7}$$

Correct Answer: E

Q No. 270 The mass of the beam is 7.0 kg and the ratio is $17:3$. The value of g will be

2005949

equal to distance 1.2 m from the beam 1.2 m from the beam 1.2 m from the beam 1.2 m from the beam

$$1.45 \text{ N/kg}$$

A

$$1.45 \text{ N/kg}$$

$$1.55 \text{ N/kg}$$

B

$$1.55 \text{ N/kg}$$

$$1.75 \text{ N/kg}$$

C

$$1.75 \text{ N/kg}$$

$$1.82 \text{ N/kg}$$

D

$$1.82 \text{ N/kg}$$

Correct Answer: D

Q No. 271 If in the ratio of north and South end, the ratio of the grid between acceleration and the grid between constant is

2005949

At the South end of a beam with mass M , a mass m is hung as shown.

$$\frac{M^2}{16}$$

A

$$\frac{M^2}{16}$$

B

$$\frac{M^2}{16}$$

$$\frac{16}{39}$$

$$168^2$$

C

$$118^2$$

$$\frac{16}{9}$$

D

$$\frac{16}{9}$$

Correct Ans : B

Q No : 254 A person falls towards earth from infinity. Its velocity on reaching the earth would be:-
2005412

we are not at yet at any time t :- you can check it over for this:-
Infinity

A

$$440$$

$$\sqrt{2gR}$$

B

$$\sqrt{2gR}$$

$$2\sqrt{gR}$$

C

$$2\sqrt{gR}$$

Zero

D

$$4gR$$

Correct Ans : B

Q No : 255 The total number of iron nucleus is 56, the nuclear density is:-
2005415

area ratio is twice as power that to $\frac{1}{2}$ reflects area $\frac{1}{2}$.
 $2.28 \times 10^{14} \text{ kg m}^{-3}$

A

$$2.28 \times 10^{14} \text{ kg m}^{-3}$$

$$2.28 \times 10^{14} \text{ kg m}^{-3}$$

B

$$2.28 \times 10^{14} \text{ kg m}^{-3}$$

$$2.28 \times 10^{14} \text{ kg m}^{-3}$$

C

$$2.28 \times 10^{14} \text{ kg m}^{-3}$$

$$2.28 \times 10^{14} \text{ kg m}^{-3}$$

D

$$2.28 \times 10^{14} \text{ kg m}^{-3}$$

Correct Ans : B

Q No. 256 When a horizontal vector, the force that causes the frame to rotate forward is the force.

2005432

जब हम एक क्षैतिज सदिश को घूर्णन के लिए प्रयत्न करते हैं, तो वह सदिश हमारे सामने होता है।

The ground vector is it

A

जमीन का सदिश है

It vector on the ground

B

ऊपर की ओर सदिश है

The upper vector is it

C

जमीन का सदिश है

It vector on the upper

D

जब जमीन का सदिश है।

Correct Ans : A

Q No. 257 The nature of a vector is based on the principle of conservation of

2005434

सदिश की प्रकृति का आधार है, संरक्षण के सिद्धांत के

Mass

A

प्रमाण है

Kinetic energy

B

सदिश की प्रकृति

Linear momentum

C

घूर्णन सदिश है

Angular momentum

D

संवेग सदिश है

Correct Ans : B

Q No. 258 The dimensional formula of physical quantity is $M^a L^b T^c$. Then, that physical quantity is-

2005437

भौतिक राशि का आयाम सूत्र $M^a L^b T^c$ है, तो वह भौतिक राशि है-

Surface tension If $a = 1, b = 1, c = -2$

A

पृष्ठ तनाव, यदि $a = 1, b = 1, c = -2$

Force If $a = 1, b = 1, c = 2$

B

बल यदि $a = 1, b = 1, c = 2$

Angular frequency If $a = 0, b = 0, c = -1$

C

संवेग सदिश यदि $a = 0, b = 0, c = -1$

Spring constant If $a = 1, b = -1, c = -2$

D

स्प्रिंग स्थिरांक यदि $a = 1, b = -1, c = -2$

Correct Ans : C

Q No. 259 The rotating a point charge having a charge q, through a charge Q is a circle of radius, of radius r. The work done will be-

2005438

the flux vector $\vec{q}$ at each q is not the same from q to q and vice versa of the two end faces.

$$\vec{q} \times \Delta \vec{r}$$

A

$$\vec{q} \times \Delta \vec{r}$$

$$\frac{\vec{q} \times \Delta \vec{r}}{\Delta r}$$

B

$$\frac{\vec{q} \times \Delta \vec{r}}{\Delta r}$$

Zero

C

$$\vec{q}$$

$$\frac{\vec{q}}{\Delta r}$$

D

$$\frac{\vec{q}}{\Delta r}$$

Correct Ans : C

Q No. 268: If the force between two electric charges is placed in an electric field of strength E , then the potential V is:

2005468

will be the same whether the charge is positive or negative and is always the same for a given E .

Directly proportional to E

A

E is inversely the E

Independent of E

B

E is directly the E

Directly proportional to $\sqrt{E}$

C

$\sqrt{E}$ is inversely the E

Inversely proportional to E

D

E is square of the E

Correct Ans : A

Q No. 269: Two parallel metal plates having charges $+Q$ and $-Q$ face each other at a certain distance between them. If the plates are now dipped in benzene oil (dielectric constant ϵ_r)

2005469

the electric field will become $\frac{1}{\epsilon_r}$ times $\frac{1}{\epsilon_r}$ of the original field. The electric field will be the same as before if the oil is not there.

Remains same

A

Increases

Decreases

B

Increases

Decreases

C

Increases

Remains same

D

Decreases

Current View : E

Q No : 262 The standardization of sound structure is called is due to-

20050419

what is more all of these are used :-

Hertzberg scientific principle

A

applied as follows Right

Pavlov's exclusion principle

B

used as change Right

Bate's correspondence principle

C

applied as Right

Bottomless law

D

disapplied

Correct Ans : B

Q No : 263 The term media are first used for-

20050419

what is more all of these are used :-

Media

A

ago

Radio

B

Internet

Artistic

C

radio

Explorer

D

Open

Correct Ans : B

Q No : 264 When two surfaces are coated with a substance they-

20050419

we do not in favor of the up of not of up-

What to each other

A

we get it from each other

What open each other

B

we get it from all

Not open each other

C

we get it from all

Can't say anything

D

we get it from all

Correct Ans : B

Q No : 265 An object that riding on a television screen gives out their color light another object that riding freely-

20050419

दो बॉल एक ही गुरुत्वाकर्षण क्षेत्र में नीचे की ओर गिर रही हैं। दोनों बॉल की गति एक दूसरे के बराबर है।

Both will reach with same speed

A

दो बॉल एक ही गुरुत्वाकर्षण क्षेत्र में नीचे की ओर गिर रही हैं।

Both will reach with same acceleration

B

दो बॉल एक ही गुरुत्वाकर्षण क्षेत्र में नीचे की ओर गिर रही हैं।

Both will reach in same time

C

दो बॉल एक ही गुरुत्वाकर्षण क्षेत्र में नीचे की ओर गिर रही हैं।

Can't say anything

D

दो बॉल एक ही गुरुत्वाकर्षण क्षेत्र में नीचे की ओर गिर रही हैं।

Correct Ans : A

Q No : 94
200508

A sphere of radius R has a uniform distribution of electric charge in its volume. At a distance x from its center, for $x > R$, the electric field is directly proportional to

एक R त्रिज्या के गोल के अंदर में विद्युत आवेश का समान रूप से वितरण है। इसके बाहर से x दूरी पर ($x > R$) के बिंदु पर विद्युत क्षेत्र समानुपाती है-

$$\frac{1}{x^2}$$

A

$$\frac{1}{x^3}$$

$$\frac{1}{x}$$

B

$$\frac{1}{x^4}$$

$$x$$

C

$$x^2$$

D

$$x^3$$

Correct Ans : C

Q No : 97
2005019

The distance of a geostationary satellite from the center of the earth (Radius $R = 6380$ km) is nearest to

एक जियो स्टेशनरी उपग्रह पृथ्वी के केंद्र से दूरी के निकटतम मानें है- (पृथ्वी $R = 6380$ किमी)

98

A

98

78

B

78

180

C

180

D

180

188

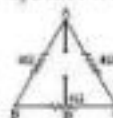
Correct Ans : B

Q No. : 2005539

Three resistances of $40\ \Omega$ each are connected as shown in figure. If the point D divides the resistance into two equal halves, the resistance between point A and D will be



the effective circuit is shown as given in fig. The $40\ \Omega$ resistor along with $20\ \Omega$ will be $40\ \Omega$ in parallel with $20\ \Omega$ resistor which will be $20\ \Omega$ in series with $40\ \Omega$ resistor.

12 Ω

A

12 Ω 40 Ω

B

40 Ω 30 Ω

C

30 Ω 10 Ω

D

10 Ω

Correct Ans : C

Q No. : 2005540

The potential difference between A and B in the following figure is-



The effective circuit is as shown in the figure below-



24 V

A

34 V

24 V

B

14 V

32 V

C

32 V

48 V

B

48 V

Correct Ans : B

Q No : 276 The equivalent resistance between point a and b of network shown in figure is given by:

2000044



Use 4 digit code after digit a, if a is the correct choice :-

$$\frac{5}{4} R$$

A

$$\frac{5}{4} R$$

B

$$\frac{4}{5} R$$

C

$$\frac{4}{5} R$$

D

$$\frac{5}{4} R$$

E

$$\frac{5}{4} R$$

F

$$\frac{4}{5} R$$

G

$$\frac{5}{4} R$$

Correct Ans : B

Q No : 277 The effective resistance between point A and B is:

2000047



Use 4 digit code after digit a, if a is the correct choice :-



10Ω

A

10Ω

20Ω

B

20Ω

40Ω

C

60Ω

25Ω

D

25Ω

Correct Ans : A

Q No : 272 Must houses are cooler in summer and warmer in winter because-

2005555

गृह में गर्म रहता है जो भी खिंचे के कारण है, यही-

Mud is a good conductor of heat

A

गृह गर्म हो जाता है कि

Mud is a super conductor of heat

B

गृह गर्म हो जाता है कि

Mud is a bad conductor of heat

C

गृह गर्म हो जाता है कि

Can't say

D

गृह गर्म हो जाता है कि

Correct Ans : C

Q No : 273 In which of the following process condensation does not take place primarily?

2005553

निम्नलिखित में से किसमें कि घटती प्रक्रिया प्रमुख रूप से नहीं होती है-

Rain and cloud formation

A

पानी और बादल

Fridge cooling

B

Boiling of water

C

वर्षा और बादल

Manning of glass of bulb due to filament

D

बर्फ बनना, पानी और बादल

Current Ans : B

Q No : 274
 The temperature of a radiating body increases by 10%. Then the increase in the amount of radiation is-

एक विकिरण विद्युत का ताप 10% से बढ़ जाता है। तब उससे विकिरण की मात्रा में वृद्धि है-

180%

A

180%

200%

B

200%

520%

C

520%

150%

D

150%

Correct Ans : A

Q No : 275
 Two spheres of the same material have radii 1 m and 4 m and temperatures 4000 K and 2000 K respectively. The energy radiated per second by the first sphere is-

दो समान पदार्थ के गोलों के त्रिज्याएँ क्रमशः 1 मी. व 4 मी. हैं और तापक्रम क्रमशः 4000 K और 2000 K हैं। प्रत्येक सेकंड के दौरान पहला गोल और दूसरा 4 सेकंडों के दौरान पहला गोल द्वारा विकिरणित ऊर्जा का अनुपात है-

दूसरे से चार गुना है

A

Less than that by the second

B

दूसरे से चार गुना है

Equal in both cases

C

24 सेकंड है

The information is incomplete to draw any conclusion.

D

दूसरे से चार गुना है

Correct Ans : B

Q No : 276
 Millions of electrons and holes in a sample of intrinsic germanium at room temperature are $6.34 \times 10^{17} \text{ m}^{-3}$ and $5.18 \times 10^{17} \text{ m}^{-3}$ respectively. If the electron and hole mobilities are equal to $3.8 \times 10^{17} \text{ m}^2/\text{Vs}$ the germanium conductivity is-

कमरे के तापमान पर एक आंतरिक जर्मनियम के नमूने में, इलेक्ट्रॉन व होल की संख्याएँ क्रमशः $6.34 \times 10^{17} \text{ m}^{-3}$ और $5.18 \times 10^{17} \text{ m}^{-3}$ हैं। यदि इलेक्ट्रॉन व होल का चालकता गुणक $3.8 \times 10^{17} \text{ m}^2/\text{Vs}$ के बराबर है, तो जर्मनियम की चालकता है-

 4.18 ms^{-1}

A

 4.18 ms^{-1} 2.17 ms^{-1}

B

- C
 $\frac{1}{2} R \Delta \theta$
 D
 $\frac{1}{2} R \Delta \theta$

Correct Ans : B

Q No : 279
 2009499 When a resistance of 20 Ω is connected across the terminals of a cell the current is 0.5 amperes, when the resistance is increased to 30 Ω , the current is 0.25 amperes. The internal resistance of the cell is-

जब एक सेल के टर्मिनल में 20 ओम प्रतिरोध जुड़ा जाता है तो धारा 0.5 एम्पीयर है। उस प्रतिरोध को 30 ओम बढ़ा दिया जाता है तो धारा 0.25 एम्पीयर है। सेल का आंतरिक प्रतिरोध है-

0.5 ohm

- A
 0.5 ohm
 B
 1.0 ohm
 C
 1.5 ohm
 D
 2.0 ohm

Correct Ans : B

Q No : 280
 2009499 If a nuclear fusion reaction mass defect is 0.04, then energy released is in Joules is 1.6 eV.

यदि एक नाभिकीय संलयन क्रिया में द्रव्य विषमता 0.04 है, तो 1 क्रिया द्वारा मुक्त की जाने वाली ऊर्जा है-

$$17 \times 10^{10} \text{ J}$$

- A
 $17 \times 10^{10} \text{ J}$
 B
 $17 \times 10^{11} \text{ J}$
 C
 $17 \times 10^{12} \text{ J}$
 D
 $17 \times 10^{13} \text{ J}$

Correct Ans : B

Q No : 281
 2009499 The equivalent weight of I_2 of substance is-

we say we all range and $\hat{b}$

$$b = 10^{12} \text{ J}$$

A

$$b = 10^{12} \text{ J}$$

$$b = 10^{12} \text{ J}$$

B

$$b = 10^{12} \text{ J}$$

$$b = 10^{12} \text{ J}$$

C

$$b = 10^{12} \text{ J}$$

$$b = 10^{12} \text{ J}$$

D

$$b = 10^{12} \text{ J}$$

Correct Ans : **A**

Q No : 282 Answer of above is related to:-

200503

एक वृत्त के घूर्णन के लिए

Moment of inertia

A

एक वृत्त

Torque

B

एक वृत्त

Radius of gyration

C

एक वृत्त

Angular momentum

D

एक वृत्त

Correct Ans : **A**

Q No : 283 A body of the following has the highest moment of inertia when each of them has the same mass and the same radius?

200503

निम्नलिखित में से कौन सा वस्तु एक वृत्त के लिए एक वृत्त के लिए एक वृत्त के लिए

A ring about any of its diameter

A

एक वृत्त के लिए एक वृत्त के लिए

A disc about any of its diameter

B

एक वृत्त के लिए एक वृत्त के लिए

A hollow sphere about any of its diameter

C

एक वृत्त के लिए एक वृत्त के लिए

A solid sphere about any of its diameter

D

एक वृत्त के लिए एक वृत्त के लिए

Correct Ans : **C**

Q No : 284 A hollow sphere (hollow) is kept in

200503

or better than zero is:

$$3.35 \times 10^{20} \text{ eV}$$

A

$$3.35 \times 10^{20} \text{ eV}$$

$$3.35 \times 10^{22} \text{ eV}$$

B

$$3.35 \times 10^{20} \text{ eV}$$

$$3.35 \times 10^{22} \text{ eV}$$

C

$$3.35 \times 10^{20} \text{ eV}$$

$$3.35 \times 10^{22} \text{ eV}$$

D

$$3.35 \times 10^{20} \text{ eV}$$

Correct Answer : B

Q No. : 205

2005013

If the wave equation $y = 0.05 \sin \frac{2\pi}{\lambda} (250t - x)$ then the velocity of the wave will be in (m/sec.)

$$400 \text{ cm/sec}$$

$$400\sqrt{2}$$

A

$$400\sqrt{2}$$

$$330\sqrt{2}$$

B

$$330\sqrt{2}$$

$$400$$

C

$$400$$

$$330$$

D

$$330$$

Correct Answer : B

Q No. : 206

2005013

It is a standing wave with particles

of both ends is not zero

On either side of a node vibrate in same phase

A

On the one side, the wave is zero and it

On the region between two nodes vibrate in same phase

B

On the one side is zero it, the wave is zero and it

On the region between two antinodes vibrate in same phase

C

On antinodes in the in the it, the wave is zero and it

D

Of the regions vibrate in same phase

अब $\frac{1}{2} \times 100$ से अब $\frac{1}{2}$ से अब $\frac{1}{2}$

Correct Ans : B

Q No - 207. Energy released in creating a drop of radius R from a drop of radii r is given by:

2007208

यदि दो बूँदों की त्रिज्याओं r और R हैं तो R बूँद में संग्रहीत ऊर्जा है-

$$4\pi T (3R^2 - 3r^2)$$

A

$$4\pi T (3R^2 - 3r^2)$$

$$\frac{3}{2\pi} (r^3 - R^3)$$

B

$$\frac{3}{2\pi} (r^3 - R^3)$$

$$4\pi T (R^2 - 3r^2)$$

C

$$4\pi T (R^2 - 3r^2)$$

$$4\pi T (3R^2 - R^3)$$

D

$$4\pi T (3R^2 - R^3)$$

Correct Ans : A

Q No - 208. When chlorine splitting a drop of water of 1 cm radius into 10⁶ droplets is - surface tension of water = 72 × 10⁻³ J/m²

2007209

एक 1 सेमी त्रिज्या की बूँद को 10^6 छोटी बूँदों में तोड़ने के लिए बिना यह कार्य

(पानी का तनाव 72×10^{-3} जूल/मी²)

$$9.10 \times 10^{-2}$$

A

$$9.10 \times 10^{-2} \text{ जूल}$$

$$9.10 \times 10^{-2}$$

B

$$9.10 \times 10^{-2} \text{ जूल}$$

$$9.10 \times 10^{-2}$$

C

$$9.10 \times 10^{-2} \text{ जूल}$$

$$9.10 \times 10^{-2}$$

D

$$9.10 \times 10^{-2} \text{ जूल}$$

Correct Ans : B

Q No - 209. A stretched vertical string (g can be termed only in

2007209

are associated with visible film and an area of

Please answer

A

area film

A narrow mirror

B

area film

A narrow mirror

C

area film

Concave-parallel mirror

D

area-convex film

Correct Ans : C

Q No. 298 The kind of lens is indicated by:

2907103

Qualitative image film, qualitative film and

Please answer

A

area film

Concave mirror

B

area film

Concave mirror

C

area film

Optical film mirror

D

area film

Correct Ans : B

Q No. 299 Which is not a suitable difference between Spherics and Lloyd's mirror fringes?

2907104

Qualitative image film and qualitative film and

In Spherics, the complete pattern of fringes is obtained. In Lloyd's mirror setup, only a few fringes on one side of the central fringe are visible.

A

Spherics is used as qualitative image film and qualitative film and

In Spherics, the fringes are circular but in Lloyd's mirror fringes are oval in shape.

B

Spherics is, the central fringe is bright and qualitative film and

In Spherics, the central fringe is bright, while in Lloyd's mirror it is dark.

C

Spherics is, the central fringe is bright and qualitative film and

The central fringe in Spherics is less sharp than that in Lloyd's mirror.

D

Spherics is qualitative image film and qualitative film and

Correct Ans : B

Q No. 299 A person who is not imaging of the eye is the image. Where should be placed in front of a convex mirror at a distance of 30 cm.

2907105

Qualitative image film and qualitative film and

A

30 cm

100-0000

38-444

1

28-55

1000-4000

5

1538-4601/01/0000-0000\$05.00/0

電話 03-3461-4141

1

42-43

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Q. 10. 201. Radius of curvature of concave mirror is 48 cm and the size of image is twice as that of object, then the object distance is _____.

उदा. समस्त जलित की समस्त विमान एक ही है। जो प्रमाणित है। समस्त, समस्त के समस्त के से समस्त है। जो समस्त के समस्त की समस्त है।

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

10

92-401

30-0000

1

398

— 40 —

1

49-50

110-4000

1

19-20

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10 A block of mass M is attached to a spring of spring constant k . The block is pulled to a distance of 1 cm from its equilibrium position at $x = 0$ on a horizontal frictionless surface from rest at $t = 0$. The displacement of the block as a function of time is

[illegible]

0-1000-450-9-1 (pb)

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2

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Q 10a. 1998 4 particle simulation 1399 of period 12 s. After two seconds, 4 passes through the centre of oscillation. The velocity is found to be 3.182 cm per second. The
3407648
acceleration of oscillation.

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1999

9.79 GPa

7.8 GPa

C

7.8 GPa

8.8 GPa

D

8.8 GPa

Correct Answer: C

Q No. 299 Downloaded from trippl at

2020/01/05

The radius of circle is given by

 $20\sqrt{10^2}$ inches

A

 $10\sqrt{10^2}$ cm $20\sqrt{10^2}$ inches

B

 $10\sqrt{10^2}$ cm 10^2 inches

C

 10^2 cm 10^2 inches

D

 10^2 cm

Correct Answer: A

Q No. 300 The resistor of resistance R is connected to 250 supply and heat produced in it is 25 J per sec. The value of R is

2000000

The electric field strength is given by the ratio of the electric force and the distance. It is given by

 $1/10$

A

 $1/20$ $1/3$

B

 $1/9$ $25/3$

C

 $25/3$ $30/3$

D

 $3/10$

Correct Answer: C

Q No. 301 National Institute Research Institute (NIH) is located at

2004507

The electric field strength is given by the ratio of the electric force and the distance. It is given by

Electric field

A

Electric field

Electric field

B

Electric field

Electric field

Correct Answer: C

Q No : 200

Which of the following is not a type of **Supporting**?

A

Supporting

Correct Answer : B

Q No : 201 The largest twister of India is located at:-

2004/1/18

Which of the following is not a type of **Twister**?

A

Twister

B

Twister

C

Twister

D

Twister

E

Twister

F

Twister

G

Twister

Correct Answer : D

Q No : 202 Which of the following is not a type of **Twister**?

2004/1/18

Which of the following is not a type of **Twister**?

A

Twister

B

Twister

C

Twister

D

Twister

E

Twister

F

Twister

G

Twister

Correct Answer : A

Q No : 203 Which of the following is not a type of **Twister**?

2004/1/18

Which of the following is not a type of **Twister**?

A

Twister

B

Twister

C

Twister

D

Twister

E

Twister

F

Twister

Correct Answer : A

Print this (1/5/22)

Correct Answer : A

Q No : 375 Which of the following element is not a nucleoside?

2020018

Tag it if you are going to report it

Correct Answer : A

A

Adenine

Thymine

B

Uridine

Adenine

C

Cytosine

Thymine

D

Adenine

Correct Answer : B

Q No : 376 Which element is structural component of nucleoside and Nucleotide?

2020017

Tag it if you are going to report it

Correct Answer : A

A

Adenine

Deoxy

B

Deoxy

Adenine

C

Cytosine

Thymine

D

Adenine

Correct Answer : C

Q No : 377 Which element is known as 'key' to the 'lock' for protein?

2020018

Tag it if you are going to report it

Correct Answer : A

A

Adenine

Phosphates

B

Adenine

Deoxy

C

Deoxy

Thymine

D

Adenine

Correct Answer : B

Q No. 108 What growth hormone (h) is secreted by pituitary gland? (1995) is in.

2004677

What is the growth hormone (h) secreted by pituitary gland?

Growth hormone

A

Growth hormone

IAA

B

IAA

IAA

C

IAA

Growth hormone

D

Growth hormone

Correct Ans : A

Q No. 109 Which of the following is not a natural hormone?

2004678

Which of the following is not a natural hormone?

IAA

A

IAA

IAA

B

IAA

Growth hormone

C

IAA

Growth hormone

D

IAA

Correct Ans : B

Q No. 110 Which of the following is not a natural hormone?

2004679

Which of the following is not a natural hormone?

IAA

A

IAA

Cytokinin

B

Cytokinin

Abscisic acid

C

Abscisic acid

IAA

D

IAA

Correct Ans : C

Q No. 111 Which of the following is not a natural hormone?

2004680

Which of the following is not a natural hormone?

IAA

A

000110

1, 0-0

B

1, 0-0

0-0

C

000110

0-0

D

1 0-0

Correct Ans : B

Q No : 112 Which of the following is used for opening of bucket?

0001102

Try it if it doesn't work with all users in the live one (1)

0-0

A

1 0-0

0-0

B

0-0

0-0

C

000110

0-0

D

0-0

Correct Ans : B

Q No : 113 Substrate-Lag effect (SLE) has been studied in granite-

0001103

Try it if it doesn't work with all users in the live one

0-0

A

000110

0-0

B

000110

0-0

C

000110

0-0

D

000110

Correct Ans : A

Q No : 114 Which of the following is a biochemical test to check the vitality of seeds -

0001104

Try it if it doesn't work with all users in the live one (1)

0-0

A

0001104

0-0

B

amphipile

ABD

0

qf6

Correct Answer: C

Q No. 118 The second constituents of plant cell wall is -
2005087

non cellulosic or cellulosic?

True

A

qf6

Correct

0

qf6

Manganese

0

qf6

Correct

0

qf6

Correct Answer: D

Q No. 119 Father of Plant Physiology is -
2005088

non cellulosic or cellulosic?

P. Pfeffer

A

qf6

Correct

0

qf6

Stephen Hales

0

qf6

M. Callan

0

qf6

Correct Answer: B

Q No. 120 Botanical name of bread m. -
2005089

amphipile or cellulosic?

Aspergillus nidulans

A

qf6

Trichoderma reesei

0

qf6

Trichoderma reesei

0

qf6

Aspergillus nidulans

0

qf6

Correct Ans : B

Q No : 122 Number of greenhouse (according to D.O.S. Trust) in Madhya Pradesh are
2005676

एकदश अठ्ठावन सहस्र (दो अठ्ठावन) है (अठ्ठावन सहस्र) है

A

3

B

8

C

9

D

10

E

12

13

14

Correct Ans : B

Q No : 122 Key relation to energy crisis is -
2005677

एकदश अठ्ठावन सहस्र (दो अठ्ठावन) है (अठ्ठावन सहस्र) है

A

Scarcity of water

B

Scarcity of fuel

C

Alternative energy source

D

Better and safe

E

Power cut

F

Quality of life

Correct Ans : C

Q No : 123 The process of establishment of primary growth at bareland is known as
2005678

एकदश अठ्ठावन सहस्र (दो अठ्ठावन) है (अठ्ठावन सहस्र) है

A

Success

B

Aggregation

C

Join

D

Merge

E

Graft

F

Adaptation

G

Survival

Correct Ans : E

Q No : 124 Which describes the deficiency of which of the following is called scurvy?
2005679

What is the most common acid rain precursor?

glucose

A

lysine

serine

B

nitric

nitrogen

C

glycine

Carbon dioxide

D

acetic acid

Correct Answer : B

Q No : 119 Which of the following are common acid rain precursors?

200544

What is the most common acid rain precursor?

CO and CO₂

A

CO and CO₂

CO and O₂

B

CO and O₂

SO₂ and NO₂

C

SO₂ and NO₂

CO and O₂

D

nitric and O₂

Correct Answer : C

Q No : 120 Carbon monoxide poisoning is caused by the formation of

200545

What is the most common acid rain precursor?

carbon monoxide

A

nitric and O₂

carbon monoxide

B

nitric and O₂

Carbon monoxide

C

nitric and O₂

Carbon monoxide

D

nitric and O₂

Correct Answer : B

Q No : 121 Which of the following are common acid rain precursors?

200546

What is the most common acid rain precursor?

A. **Ultras**

Johann

Phonological group

B.

Sonic vocalizations

CFOs

C.

Squeals

Squeals

D.

Sonic Ss

Correct Answer: B

Q No : 128 The range of frequencies of vocal heard by the human ear range from:

20000000

What are the frequencies of vocal heard by the human ear range from?

2 Hz - 2 Hz

A.

2 Hz - 2 Hz to 20 Hz

2 Hz - 20 Hz

B.

2 Hz - 20 Hz to 20 Hz

20 Hz - 200 Hz

C.

20 Hz - 200 Hz to 20 Hz

20 Hz - 20000 Hz

D.

20 Hz - 20000 Hz to 20 Hz

Correct Answer: B

Q No : 129 According to WHO guidelines, the threshold level of noise above which the noise becomes harmful to human health is:

20000000

According to WHO guidelines, the threshold level of noise above which the noise becomes harmful to human health is:

25 dB

A.

25 dB

25 dB

B.

25 dB

25 dB

C.

25 dB

25 dB

D.

25 dB

Correct Answer: B

Q No : 130 Which of the following reduced by noise is a harmful pollutant?

20000000

Which of the following reduced by noise is a harmful pollutant?

Breathable air

A.

Breathable air

Breathable air

Q No - 137

Water

100

Correct Ans : B

Q No - 137 The air (prevention and control of Pollution) act was enacted in the year

2005/1994

1986/1987/1988/1989

1986

A

1989

1988

B

1988

1987

C

1987

1989

D

1989

Correct Ans : A

Q No - 138 A lot of the following is basic component of ecosystem?

2005/1993

Soil/Sun/Water/Air

Soil

A

Soil

Water

B

Soil

Light

C

Soil

Chemosynthesis

D

Chemosynthesis

Correct Ans : D

Q No - 139 The unit of measurement of energy is-

2005/1993

and is measured by-

Kilowatt

A

Kilowatt

Kilowatt

B

Kilowatt

Kilowatt

C

Kilowatt

Kilowatt

D

Kilowatt

Correct Ans : B

Q No. : 348 In Fisher's population, the natality rate is equivalent to the

2007434

मृत्यु दर से बराबर होता है ?

जनसंख्या

A

जनसंख्या

mortality rate

B

मृत्यु दर

birth rate

C

जनसंख्या

population density

D

जनसंख्या

Correct Ans : C

Q No. : 351 Which of the following disease is caused by virus?

2007446

निम्न में से कौन सा वायरस द्वारा

बुद्धि मंदता का कारण

A

निम्न में वायरस

Little leaf of brinjal

B

निम्न में वायरस

Leaf curl of Tobacco

C

निम्न में वायरस

Little blight of Potato

D

निम्न में वायरस

Correct Ans : C

Q No. : 352 "Adaptations of plant world" are which

2007452

—निम्न में से कौन सा पौधों की

परत

A

निम्न में

Gymnosperms

B

निम्न में

Erythrocyte

C

निम्न में

Algae

D

निम्न में

Correct Ans : C

Q No. : 353 Which of the following is also known as

2007528

chem reaction go at same rate?

Effect On Temp

A

does the react

Chemical reaction

B

will be given

London energy

C

will be

Polynomial reaction

D

will be given

Correct Ans : E

Q No. 144 Water bacteria are from the

2007230

an organism from the

Myxobacteria

A

will be

Bacteria

B

will be

Cyanobacteria

C

will be

Green algae

D

will be

Correct Ans : C

Q No. 145 Multicarpelation takes place in poll organ from

2007234

carpel from within area of the

PS

A

will be

Pericarpium

B

will be

Vascular

C

will be

Body body

D

will be

Correct Ans : B

Q No. 146 Which of the following plant hormone is used to speed up-ripening in breeding industry?

2007236

It is a low level of hormone which is used to speed up-ripening in breeding industry?

ABA

A

ABA

Q No - 547

Which

is

A

is

is

B

is

Correct Ans : D

Q No - 547 Which is considered the primary application commonly used in

2007953

which of the following is the primary application commonly used in

Health

A

is

is

B

is

Health

C

is

is

D

is

Correct Ans : D

Q No - 548 Which of the following is the primary application commonly used in

2007953

which of the following is the primary application commonly used in

Muscle Connective Tissue

A

is

is

B

is

is

C

is

is

D

is

Correct Ans : B

Q No - 549 Which of the following is the primary application commonly used in

2007953

which of the following is the primary application commonly used in

Epithelial

A

is

is

B

is

Q No. 170 Aerogram

malheur
Bokaplan

B
yolcan

Correct Ans : B

Q No. 171 BCD machine is used for which device

2007979

shish ballu an unlu lu lu lu lu lu lu
Pencemada

A
Bilim
Telenetech

B
yilge
Luput

C
yil
Schneider

D
yililil

Correct Ans : B

Q No. 172 The test which is developed to control during development

2007978

yalu yulu yulu yulu yulu yulu yulu yulu
Amputa

A
yulu
Myometrium

B
yalu yulu
Canto

C
yalu yulu
Endometrium

D
yalu yulu

Correct Ans : D

Q No. 173 The schedule plan is mentioned as it is known as _____

2007977

yalu yulu yulu yulu yulu yulu yulu yulu
development phase

A
yalu yulu
future phase

B
yalu yulu
production phase

C
yalu yulu
validation

Feedback

Correct Ans : C

Q No : 151 Primary follicle is made up of a primary oocyte surrounded by a layer of _____ cells.

20079128

प्रथम कोशिका के चारों ओर एक कोशिका की परत है।

प्रथम कोशिका

A

प्रथम कोशिका

प्रथम कोशिका

B

प्रथम कोशिका

Secondary oocytes

C

प्रथम कोशिका

Aggregates

D

प्रथम कोशिका

Correct Ans : A

Q No : 152 If an unfertilized frog egg is placed with a microscope what will happen.

20079119

एक अंडा को माइक्रोस्कोप में रखा जाए तो क्या होगा?

Transform into a tadpole at a faster rate

A

It will stop fertilization

It will stop fertilization

B

It will stop fertilization

It will remain unchanged

C

It will stop fertilization

It will stop fertilization

D

It will stop fertilization

Correct Ans : D

Q No : 155 Which fruit representative is found in which organism?

20080148

कौन सा फल किस जीव में पाया जाता है?

Fruit

A

It is found in

It is found in

B

It is found in

It is found in

C

It is found in

It is found in

D

It is found in

Correct Ans : E

ay aadw d aaw ddaa d ay dda d aaw d dda aadw ga dda d d dda

Primary cell culture

A

ayda ddaa dda

Cell suspension culture

B

da aadw dda

Clonal culture

C

daa dda

Protoplast Culture

D

daaaw dda

Correct Ans : A

Q No. 368 An organism generated through genetic engineering is called _____.

2000293

aydaa ddaa dda d aaw d dda dda d dda dda

Gene pool

A

da dda

Genetically modified

B

ayda ddaa

Mutation

C

aydaa

Gene flow

D

da dda

Correct Ans : B

Q No. 369 Culture which is prepared by direct inoculating from the tissue of an organism is culture media

2000294

ay aadw d dda dda d aaw d dda dda dda d aadw ga dda dda dda

Primary cell culture

A

ayda ddaa dda

Secondary cell culture

B

daa ddaa dda

Micropropagation

C

aydaa

Multi-layer culturing

D

ayda dda

Correct Ans : A

Q No. 370 Process in which a single cell is able to reproduce the whole organism is called cell culture.

2000295

ay ddaa dda d ay dda ay aaw dda ay dda d dda dda dda d dda

Transformation

A

aydaa

Q No - 302 Which of the following is not a DNA sequencing method?

- A Sanger sequencing
- B 454 pyrosequencing
- C Illumina sequencing
- D Nanopore sequencing

Correct Ans : B

Q No - 303 Which of the following activity is not possible in the case of DNA polymerase I?

5' to 3' exonuclease activity

- A 5' to 3' exonuclease activity
- B 3' to 5' exonuclease activity
- C 5' to 3' endonuclease activity
- D 3' to 5' exonuclease activity

Correct Ans : B

Q No - 304 Which of the following is not a DNA polymerase I activity?

5' to 3' exonuclease activity

- A 5' to 3' exonuclease activity
- B 3' to 5' exonuclease activity
- C 5' to 3' endonuclease activity
- D 3' to 5' exonuclease activity

Correct Ans : B

Q No - 305 Which of the following statements is correct regarding DNA replication?

1. Replication is semi-conservative

- A 1. Replication is semi-conservative
- B 2. Replication is conservative
- C 3. Replication is dispersive
- D 4. Replication is random

एक स्टार को रीपिंग या काटी कहा है।

It acts as both types of strands.

A

एक छोटी प्रजाति के जीनोम या काटी कहा है।

It is segment of DNA.

B

एक रीपिंग या काटी कहा है।

Correct Ans : B

Q No : 366 If only one strand is functional in the superhelical backbone, it is called as _____.

2000040

यदि एक-एकल रीपिंग के डोमेन को काम करने के लिए है, तो इसे _____ कहा जाता है।

extruding

A

को डोमेन

extr

B

डोमेन

extruding

C

डोमेन

extruding

D

डोमेन

Correct Ans : B

Q No : 367 The ribbons with are held together by which type of bond?

2000040

रिबॉन को रीबॉन के साथ जोड़ने के लिए किस प्रकार के बंधन होते हैं, वह हमें बता दें _____।

Hydrogen bond

A

हाइड्रोजन बंध

Polar bond

B

डोमेन

Covalent bond

C

हाइड्रोजन बंध

Van-der-Waals bond

D

हाइड्रोजन बंध

Correct Ans : A

Q No : 368 Which is the correct statement regarding Okazaki fragments?

2000040

ओकाज़की फ्रैगमेंट्स और वे किस प्रकार के होते हैं?

Okazaki fragments are fragments of RNA formed on the leading strand.

A

ओकाज़की फ्रैगमेंट्स और वे किस प्रकार के होते हैं?

Okazaki fragments are fragments of RNA formed on the leading strand.

B

ओकाज़की फ्रैगमेंट्स और वे किस प्रकार के होते हैं?

Okazaki fragments are short fragments of DNA formed on the lagging strand.

C

Correct Ans : B

Q.No : 372 Taxonomic information is organized in taxon classification is called _____

20000197

सूक्ष्मजीवों की वर्गीकरण जानकारी को व्यवस्थित करने को _____ कहते हैं।

Systematics

A

सूक्ष्मजीवों की वर्गीकरण

Taxonomy

B

सूक्ष्मजीव

Physiology

C

सूक्ष्मजीव

Ecology

D

सूक्ष्मजीव

Correct Ans : B

Q.No : 373 Which among is called father of taxonomy?

20000198

कौन से जीवविज्ञान को 'पादर' माना जाता है?

Linnaeus

A

लैन्नायस

Linnaeus

B

लैन्नायस

Linnaeus

C

लैन्नायस

Linnaeus

D

लैन्नायस

Correct Ans : B

Q.No : 374 Arrange in the correct order.

20000199

1) Class

2) Kingdom

3) Phylum

4) Order

5) Genus

6) Family

7) Species

सही क्रम में व्यवस्थित करें।

1) Class

2) Order

3) Phylum

4) Species

5) Genus

6) Family

7) Order

A

6, 3, 4, 5, 7, 2, 1

8, 2, 3, 1, 5, 7, 6
7, 1, 3, 4, 5, 6, 1

B

7, 1, 3, 4, 5, 6, 1
1, 2, 3, 4, 5, 6, 7

C

1, 2, 3, 4, 5, 6, 7
2, 3, 1, 4, 5, 6, 7

D

2, 3, 1, 4, 5, 6, 7

Correct Ans : D

Q No : 178 Which among these is a leopards habit?

2000048

only it also preys on rats (r)

Preys on a dogfish

A

stays on trees

Wings of birds and bats

B

stays on ground in the

Parasites of humans

C

only it eats

top of a dog and Preys on a dogfish

D

goes to the stays on trees

Correct Ans : B

Q No : 179 Whelan which known for its anatomical body shape is _____

2000044

more of and than with is more is the one use (r) on (r) _____

Amphibia

A

fish

Arthropoda

B

insects

Mollusca

C

Reptiles

Porifera

D

Amphibia

Correct Ans : B

Q No : 177 The organism which has taken out from secondary habitat

2000046

as its an new species (r) as it is a new species (r)

Reproduction

A

Reproduction

B

Reproduction

37

Ctenophora

C

Hydrozoa

Platyhelmin

D

echinoderm

Correct Answer: D

Q No : 378 Organisms that use regionalized septa for movement and orientation are?

2000018

organismen die regionalisierte Septen für Bewegung und Orientierung nutzen

Aschelminthes

A

phlebotom

Arthropoda

B

echinoderm

Aschelmin

C

phlebotom

Platyhelminthes

D

echinoderm

Correct Answer: D

Q No : 379 Phylum that has a water vascular system?

2000019

Welches Tierreich hat ein Wasser-Strömungssystem?

Reich der Aschelmin

A

phlebotom

Reich der

B

echinoderm

Echinodermata

C

phlebotom

Reich der

D

echinoderm

Correct Answer: C

Q No : 380 A form of the following is characterized by the presence of pedicels?

2000020

Welche Form der folgenden ist durch die Anwesenheit von Stielen gekennzeichnet?

Reich der

A

echinoderm

Reich der

B

echinoderm

Reich der

C

echinoderm

Echinodermata

Q No. 380: [View Question](#)





Correct Ans : **A**

Q No. 381: Which among the following theory explains the origin of life?

[View Question](#)





Black hole theory

A

Big bang theory**Big bang theory**

B

Big bang theory**Explosion theory**

C

Big bang theory**Explosion theory**

D

Big bang theoryCorrect Ans : **B**

Q No. 382: Which of the following is not a gas in the atmosphere?

[View Question](#)





Helium, hydrogen, oxygen, nitrogen

A

Helium, hydrogen, oxygen, nitrogen**Hydrogen, helium, ammonia, water**

B

Ammonia, helium, carbon dioxide, oxygen**Ammonia, helium, carbon dioxide, oxygen**

C

Helium, hydrogen, ammonia, oxygen**Hydrogen, ammonia, oxygen, helium**

D

Ammonia, helium, ammonia, heliumCorrect Ans : **B**

Q No. 383: According to spontaneous generation, life originated ____.

[View Question](#)





From nonliving organisms

A

From living organisms**From living organisms**

B

From life**From life**

C

From life**Spontaneously**

D

SpontaneouslyCorrect Ans : **D**

Q No : 394 Is the following theory better supported in the available experiments?
2000076

of the fact: it isn't there when it has an earlier form

Endospore

A

Spore

Prospore

B

Spore

Cell

C

Spore

Endospore wall

D

Spore spore

Correct Ans : B

Q No : 395 In parallel with the strengthening and reduction, there are no free regions available but later it gets converted into something where due to the emergence of
2000077

when you it occurs and it gets into the other areas, it changes into it _____, it gets to some of the other parts of the cell and the

Endospore

A

Spore

Endospore

B

Spore

Endospore spore

C

Spore-like form

Endospore

D

Spore-like

Correct Ans : B

Q No : 396 Process where organisms in not closely related, independently evolved similar traits as a result of having to adapt to similar environments is called as _____.
2000078

as others are the same in other parts, some amount of change in the structure and the other parts are _____, and it

Divergent evolution

A

Spore-like

Convergent evolution

B

Spore-like

Parallel evolution

C

Spore-like

Evolution

D

Spore

Correct Ans : B

Q No : 397 Endospore found deep inside the soil the bacteria's coat where _____.
2000079

ਜਦੋਂ ਕੋਈ ਵੀ ਜੀਵ ਜੀਵ ਗ੍ਰਹਿਣ, ਇਹ ਕਹਿੰਦਾ ਹੈ.....।

Animals are destroyed due to natural disasters

A

ਜਦੋਂ ਕੋਈ ਜੀਵ ਜੀਵ ਗ੍ਰਹਿਣ, ਇਹ ਕਹਿੰਦਾ ਹੈ.....।

Animals are harmed and preserved by natural process

B

ਜਦੋਂ ਕੋਈ ਜੀਵ ਜੀਵ ਜੀਵ ਗ੍ਰਹਿਣ, ਇਹ ਕਹਿੰਦਾ ਹੈ.....।

Animals are killed by hunters

C

ਜਦੋਂ ਕੋਈ ਜੀਵ ਜੀਵ ਗ੍ਰਹਿਣ, ਇਹ ਕਹਿੰਦਾ ਹੈ.....।

Deformation causes of animals

D

ਜਦੋਂ ਕੋਈ ਜੀਵ ਜੀਵ ਗ੍ਰਹਿਣ, ਇਹ ਕਹਿੰਦਾ ਹੈ.....।

Correct Ans : B

Q No : 308 Age which is closely related to the word

2000033

ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ

Manley

A

Manley

Manley

B

Manley

Manley

C

Manley

Manley

D

Manley

Correct Ans : B

Q No : 309 What is another name of human evolution?

2000034

ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ

Anthropology

A

Anthropology

Anthropology

B

Anthropology

Anthropology

C

Anthropology

Anthropology

D

Anthropology

Correct Ans : B

Q No : 310 Branch of science in which we study the evolutionary history of man is known as _____

2000035

ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ ਜੀਵ

Anthropology

A

Anthropology

- Question**
- Which of the following is a type of **biotechnology**?
- A. **Genetics**
- B. **Chemistry**
- C. **Physics**
- D. **Mathematics**
- E. **Computer Science**

Correct Answer: **A**

Question Which of the following is a type of **biotechnology** that is used to produce **insulin**?

- A. **Genetics**
- B. **Chemistry**
- C. **Physics**
- D. **Mathematics**
- E. **Computer Science**

Correct Answer: **D**

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- A. **Genetics**
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- C. **Physics**
- D. **Mathematics**
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Correct Answer: **D**

Question Which of the following is a type of **biotechnology** that is used to produce **insulin**?

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Correct Answer : A

Q No : 297 Location compensation is not achieved mainly due to

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active water effect it leads to increase in osmotic

movement to pH

A

due to pH

inhibiting respiration

B

osmotic force

reduction in the pH of culture

C

active to due to pH

cells get enough oxygen supply

D

absorbed at water solution at high level

Correct Answer : A

Q No : 298 Which of the following is the phenomenon, where the living differentiated cells, that by some time lost the capacity to divide can regain the capacity of division under certain conditions?

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Regeneration is ability of one to, any other living organism, to regenerate lost or part of part to, go back to original form of one organism or an animal to

A

Over Differentiation

Regeneration

B

Over Differentiation

Regeneration

C

Over Differentiation

Regeneration

Correct Answer : A

Q No : 299 What is osmosis?

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diffusion of water

A

False

True

B

False

True

C

False

True

Correct Answer : B

Q No : 300 After fertilization in which form an ovule develops?

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Embryo is very simple structure in early form

A

Seed

Embryo

B

Seed

Embryo

C

Seed

Embryo

Correct Answer : A