- Number of HIO<sub>4</sub> molecules required for complete oxidation of one mole of glucose is 89.
  - 1) 4

2) 5

3)6

- 90. List - I
  - 1) Urea formaldehyde resin
  - 2) Neoprene
  - 3) PVC
  - 4) Nylon-6

3)

- List II
- a)  $(-NH (CH_2)_5 CO -)_{10}$
- b)  $(-NH (CH_2)_6 NH -)_{,,}$
- $\left(-CH_2 C = CH CH_2 \right)$

4) 1

- d)  $\left(CH_2 CH \right)$
- e)  $(NH CO NH CH_2 -)$

### The correct match is

- 3 1 1) d
  - c d
- 1
- b
- e d c 4)

### **BIOLOGY**

91. Study the following table which shows different organisms with their taxonomic categories. Common name

S.No	Common name	Family	Order	Class	Division
i.	Man	Hominidae	Primata	Mammalia	A
ii.	Housefly	Muscidae	Diptera	В	Arthropoda
iii.	Mango	С	Sapindales	Dicotyledonae	Angiospermae
iv.	Wheat	Poaceae	Poales	D	Angiospermae

Select the correct option for A, B, C and D.

4) Non – Chordata

B

 $\mathbf{C}$ 

Anacardiaceae

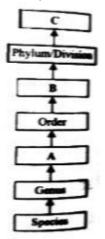
D

Dicotyledonae

- 1) Chordata Insecta Anacardiaceae Monocotyledonae Anacardiaceae Monocotyledonae 2) Animalia Arachnida 3) Chordata Arachnida Polygonaceae Monocotyledonae

Insecta

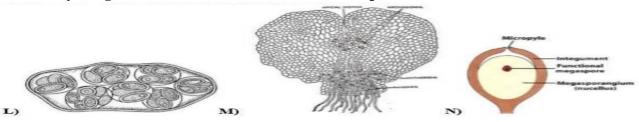
- **92.** A normal woman, whose father had haemophilia, married a normal man. What is the chance of occurrence of hemophilia in their children?
  - 1) 25 % children will be hemophilic
  - 2) 50% children will be hemophilic
  - 3)75 % children will be hemophilic
  - 4) None hemophilic but 75 % will be carriers
- The given flow chart represents the hierarchy of various taxonomic categories. 93. Identify the missing categories (A, B and C) and select the correct statements regarding:



i) A is the taxonomic category which contains a number of related genera.

	ii) Examples of cate	egory B are Monocot	yledoneae	
	· •	e basic unit of taxonor	· ·	
	_	egory C are Fungi, M		
	1) (i) and (ii)	2) (iii) and (iv)	3) (i), (ii) and (iv)	4) (i), (ii), (iii) and (iv)
94.	O	O	cending order with respect	t to the 'number' of
		nich trisomy condition	n is developed.	
	A) Patau syndrome			
	B) Edward syndron			
	C) Down syndrome			
	D) Klinefelter syndi		2) 1 5 6 5	
~-	1) A-B-C-D	2) A-C-B-D	3) A-D-C-B	4) A-C-D-B
95.		_	correct regarding the clas	•
			endogenously on conidiopl	nores
			eed endogenously in asci.	
	, 1 0	•	are Ascomycetes fungi.	
		rally branched and sep		
96.	•		fertilization takes place be	_
	1) Rh female and Rh	n <sup>+</sup> male	2) Rh <sup>+</sup> female and Rh	male
	3) Rh <sup>+</sup> female and R	h <sup>+</sup> male	4) Rh female and Rh	male
<b>97.</b>	Which of the follow	ing characters repres	sent the affinities of Gnetu	m with angiosperms and
	difference with Cyc	as and Pinus?		
	1) Presence of xylem	n vessels and absence of	of archegonia	
	2) Perianth and two i	integuments		
	3) Embryo developm	nent and apical meriste	em	
	4) Absence of resin of	ducts and leaf venation	1.	
98.	Arrange the followi	ng structures of man	nmary gland in sequence,	based on the passage of
	milk.			
	a) mammary duct b	o) alveoli c) lactiferou	s duct d) mammary tubul	es e) mammary ampulla
	1) b, d, a, e, c		2) b, d, e, a, c	
	3) b, a, e, d, c		4) b, e, d, a, c	
99.	Read the given state	ements and select the	incorrect ones.	
	i) Sporophyte in mo	osses is more elaborat	te than that in liverworts.	
	ii) Salvinia is homos	sporous		
	iii) Life –cycle in C	ycas is diplontic		
	iv) In Cycas, mlae c	ones and megasporoj	phylls are borne on the sai	me trees.
	1) (i) and (ii)		2) (i) and (iii)	
	3) (ii) and (iv)		4) (iii) and (iv)	
100.	Statement I: Heart in	i fishes is described as	Branchial and Venous hear	t
	Statement II: In fishe	es, heart receives blood	d only from the gills and sup	pplies only deoxygenated
	blood to	the body parts.		
1	) Statement I and Stat	ement II are true and S	Statement II is the correct ex	xplanation of Statement I
2	2) Statement I and Stat	ement II are true and S	Statement II is not the correct	ct explanation of Statement 1
3	3) Statement I is true, S	Statement II is false		
4	Statement I is false,	Statement II is true		

### 101. Identify the given structure and select the correct option.



No	L	M	N
1)	Aplanospore of Ulothrix	Prothallus (2n) of pteridophyte	Ovule of Angiosperm
2)	Palmella stage of Ulothrix	Prothallus (n) of bryophyte	Ovule of Gymnosperm
3)	Akinetes of Chlamydomonas	Sporophyte (2n) of bryophyte	Endosperm of Gymnosperm
4)	Palmella stage of Chlamydomonas	Prothallus (n) of pteridophyte	Ovule of Gymnosperm

# 102. Match the following.

List-II List -II

- A) Antennary glands 1) Arenicola
- B) Pedipalps 2) Astacus
- C) Parapodia 3) Acorn worm
- D) Phasmids 4) Aranea
- E) Radula 5) Ancylostoma 6) Aplysia

	A	В	C	D	$\mathbf{E}$		A	В	$\mathbf{C}$	D	E
1)	3	4	1	5	6	2)	2	4	1	3	6
3)	2	4	1	5	6	4)	2	3	6	5	1

## 103. Match the Column I Column II and select the correct option from the given codes.

Column I Column II

A) Thorns
 B) Phylloclades
 C) Runners
 Defensive mechanism
 Mechanical support
 Absorption of nutrition

E) Haustoria v) Photosynthesis

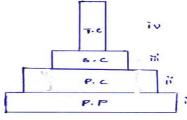
1) A-(v), B-(iv), C-(iii), D-(ii), E-(i)

2) A-(ii), B-(v), C-(iii), D-(i), E-(iv)

3) A-(ii), B-(v), C-(i), D-(iii), E-(iv)

4) A-(iii), B-(v), C-(iv), D-(i), E-(ii)

### 104. Given diagram based on pyramid of energy arranged in proper sequence



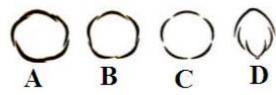
- 1) (i)PP-809, (ii) PC-37, (iii)SC-11, (iv) TC-1.5
- 2) (i) PP-37,(ii)PC-809, (iii)SC-11, (iv)TC-1.5
- 3) (i) PP-37, (ii) PC-11, (iii) SC-809, (iv) TC-1.5
- 4) (i) PP-37, (ii) PC-1.5, (iii) SC-809, (iv)TC-11

- 105. Which of the following is an incorrect pair?
  - 1) Phylloclade Opuntia

2) Cladode - Asparagus

3) Phyllode – Asparagus

- 4) Stem tendrils Grapevine
- 106. Which of the following conditions tend to disturb the Hardy-Weinberg equilibrium in a population.
  - a) Natural selection
  - b) Large size of the population
  - c) Differential reproductive success
  - d) Panmictic mating
  - e) Large scale migrations
  - 1) b, d only
- 2) a, c, d, e
- 3) a, e only
- 4) a, c, e only
- 107. Identify the different types of aestivation (A, B, C and D) and select the correct option.



$\mathbf{A}$	В	C	D
1) Valvate	Twisted	Imbricate	Vexillary
2) Imbricate	Twisted	Valvate	Vexillary
3) Twisted	Imbricate	Vexillary	Valvate
4) Twisted	Imbricate	Valvate	Vexillary

- 108. Select correct sequence of Blood Coagulation
  - 1) Fibrin Thrombokinase Thrombin Fibrinogen Prothrombin Blood clot
  - $2)\ Prothrombin-Thrombokinase-Blood\ clot-Fibrinogen-Fibrin-Thrombin$
  - 3) Thrombin Fibrinogen Fibrin Blood clot Prothrombin Thrombokinase
  - 4) Prothrombin Thrombokinase Thrombin Fibrinogen Fibrin Blood clot

### 109. Identify the missing words (A, B, C and D)

Family	Inflores cence	Flower	Stamens /tepals	Gynoecium
Fabaceae	A	В	10	Monocarpellary
Solanaceae	Solitary axillary or cymose	Actino-morphic	5	D
Lilliaceae	Solitary cymose or racemose	Actino – morphic	C	Tricarpellary

$\mathbf{A}$	В	C	D
1) Racemose	Zygomorphic	3+3	Bicarpellary
2) Racemose	Actinomorphic	5	Bicarpellary
3) Cymose	Zygomorphic	3+3	Tricarpellary
4) Cymose	Actinomorphic	5	Multicarpellary

### 110. Match the following and select the correct set.

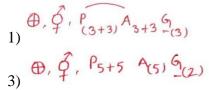
Column-I

Column - II

- A. Mitral valve
- i. Pulmonary aorta
- **B.** Tricuspid valve
- ii. Right upper corner of right atrium
- C. Semilunar valves
- iii. Left lower corner of right atrium
- D. Atrioventricular node
- iv. Right atrioventricular opening
- E. Sino-atrial node
- v. Left atrioventricular opening
- **A B C D E** 1) ii iii i iv v
- **A B C D E** 2) v iv i ii iii
- 3) ii iv v i iii
- 4) v iv i iii ii

## 111. Study carefully the given floral diagram and select the option which correctly represents the related floral formula.





2) 
$$\bigoplus_{(1,1)} (\widehat{Q}_1, P_6, A_6, \underline{Q}_{(3)})$$
  
4)  $\bigoplus_{(2,1)} (\widehat{Q}_1, K_{(5)}, \widehat{C}_{(5)}, A_{(5)}, \underline{G}_{(2)})$ 

- 112. Pisiform bone of the wrist of a mammal is formed by the ossification in the.
  - 1) Soft tissues
- 2) Embryonic mesoderm 3) Cartilage
- 4) Tendon

- 113. Which of the following statements are incorrect?
  - i) secondary growth usually occurs in monocotyledons
  - ii) Bark refer to all tissues interior to vascular cambium
  - iii) Lenticels permit the exchange of gases between the outer atmosphere and the internal tissue of the stem.
  - iv) Annual rings give an estimate of the age of the tree.
  - 1) (i) and (ii)
- 2) (i) and (iii)
- 3) (i) and (iv)
- 4) (ii) and (iv)
- 114. Statement-I: In frog, bucco-pharyngeal cavity acts as a 'force pump' during pulmonary respiration. Statement-II: During pulmonary respiration in frog, Air is forced through the glottis into the lungs when the floor of bucco-pharyngeal cavity is lowered.
  - 1) Statement-I is false, Statement-II is true
  - 2) Statement-I is true. Statement-II is false
  - 3) Statement-I and Statement-II are true and Statement-II is not the correct explanation of Statement-I
  - 4) Statement-I and Statement-II are true and Statement-II is the correct explanation of Statement-I
- 115. Which of the following statements are correct about heartwood?
  - i) It does not help in water conduction
  - ii) It is also called alburnum
  - iii) It is light in colour and is very soft
  - iv) It has tracheary elements which are filled with tannins, resins, etc
  - 1) (ii) and (iv)
- 2) (i), (ii) and (iii)
- 3) (ii), (iii) and (iv)
- 4) (i) and (iv)

- 116. Which of the following statement is correct?
  - 1) Maximum number of nephrons in kidney are juxta-medullary type
  - 2) DCT of many nephrons open into Henle's loop
  - 3) Vasa recta may or may not present for cortical nephrons
  - 4) All of the above
- 117. Organelles with self duplicating ability are
  - I) Mitochondria
  - II) Ribosomes
  - III) Golgi complex
  - IV) Chloroplast
  - 1) I, II, III and IV

2) I, II and III only

3) I, II and IV only

4) I & IV only

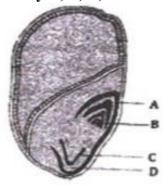
118.		ne foundation for the biological concept of evolutio		
	was proposed by.			
	1) Charles Darwin in 'Origin of species'	•		
	3) Linnaeus in 'Systema Naturae'	4) Buffon in 'Natural History'		
119.	Events of Anaphase-I is/ are.			
	I) Centromere splits			
	II) Separation of Homologous chromosome	es		
	III) Chromatids move to opposite poles			
	IV) Chromosomes move to opposite poles			
	1) I, II 2) II, III	3) I, III 4) II, IV		
120.	<b>Equation of exponential growth</b>			
	1) $\frac{dN}{dt} = rN \left[ \frac{K-N}{K} \right]$ 2) $\frac{dN}{dt} = rN$	3) $\frac{dt}{dN} = rN$ 4) $\frac{dN0}{dt} = rK \left\lceil \frac{N - K}{N} \right\rceil$		
	1) $\frac{1}{dt} = riN$ $\frac{2}{K}$ $\frac{1}{dt} = riN$	3) $\frac{dt}{dN} = rN$ 4) $\frac{dN0}{dt} = rK \left  \frac{N - K}{N} \right $		
121.	Study the following statements.			
	A) Occurs as free living organisms to the ro	oot ecosystem		
	B) Effective biocontrol agent of several plan	nt pathogens		
	C) Has heterotropic mode of nutrition			
	D) Plant body is undifferentiated.			
	The taxon with above features is developed	l as biocontrol agent to use in the treatment of plai		
	diseases. Among the following identify the	_		
	1) Glomus 2) Trichodesmium	3) Bacillus 4) Trichoderma		
122.	Match the disorders given in column I with correct option	h their feature given in column II and choose the		
	Column – I (Disorders)	Column – II (Feature)		
	A) Uremia	I. Excess of proteins in urine		
	B) Hematuria	II. Presence of high ketone bodies in urine		
	C) Ketonuria	III. Presence of blood cells in urine		
	,			
	D) Glycosuria	IV. Presence of glucose in urine		
	E) Proteinuria	V. Excess of urea in blood		
	A B C D E	A B C D E		
	1) V III II IV I	2) IV V III II I		
	3) V III IV II I	4) III V II I IV		
123.	Study the following.			
	<u>Crop variety</u>	Character developed		
	I) Bhindi Parabhani kranthi	Powdery mildew resistance		
	II) Cauliflower Pusa shubhra	Black rot resistance		
	III) Brassica Pusa Gaurav	Aphid resistance		
	IV) Mung bean Pusa sawani	Yellow mosaic virus resistance		
		Tenow mosaic virus resistance		
	Identify the correct combinations	2) I 1 I I I I I I I I I I I I I I I I I		
4.6.	1) I and II 2) II and III	3) I and IV 4) III and IV		
124.	Find the odd one out.			
	1) Parathyroid – Tetany	2) Pancreas – Diabetes insipidus		
	3) Adrenal cortex –Cushing's syndrome	4) Thyroid - Goitre		

	SR	IGAYATRI EDUCAT	IONAL INSTITUTI	ONS - AP & TS
125.		e sequence of amino acid of DNA that directs its	•	Predict the nucleotide sequence
	_	TGGAGGAAATAG- 5 <sup>1</sup>		
	*	ACCUCCUUUAUC-5 <sup>1</sup>	· · · · · · · · · · · · · · · · · · ·	
126	,	llowing lungs capacities	<i>'</i>	
120.	e e	0 0 <b>1</b>		ing order
	A) Vital capaci	•	B) Tidal volume	
		reserve volume	D) Expiratory re	eserve volume
	E) Total lung ca		2) DDCAE	4) EARCD
105	1) BACDE	2) BDACE	3) BDCAE	4) EABCD
127.		reen seeds.F2 generation		h a pure pea plant having How many of the plants show
	1) 569	2) 189	3) 759	4) 63
128.	Study the pedia	gree chart given below. V	What does it show?	,
	, ,	, I		
		h		
		-		
		VIII	0 0	
	1) Inheritance of	f a condition like Phenylk	etonuria	
	*	chart is wrong as this is n		
	, 1	f a recessive sex- linked d	1	
	*	f a sex linked inborn error	•	nylketonuria
129.		wing table. Hormone Na	-	
	I) 2, 4-Dichloro	phenoxy Natural auxin	Dicot-weedicide acetic	acid
	II) Abscisic acio	d Carotenoid derivative	Induction of seed dorn	nancy
	III) Gibberellic	acid Adenine derivative	Delay of senescence	•
		aseous Hormone Induct		cucumber
	<b>Identify the CC</b>	ORRECT combination		
	1) I, II	2) II, III	3) II, IV	4) I, III
130.	<b>Statement-I:</b> N beat.	icotine present in tobacco	smoke cause raise in t	plood pressure and increases hear
	Statement-II: N	Vicotine stimulate adrenal	medulla to release Aldo	sterone and Cortisol
	1) Both Stateme	nt-I and Statement-II are	true and Statement-II is t	the correct explanation of
	Statement-I			-
		nt-I and Statement-II are	true but Statement-II is r	ot the correct explanation of
	Statement-I	<u>.</u>		
	*	s true but Statement-II is f		
	4) Statement-I is	s false but Statement-II is	true	

131. Study the following statements and identify the WRONG statement? 1) Transcription is initiated when ' $\sigma$ ' factor binds RNA polymerase

- 2) A small stretch of RNA primer is required for initiation of DNA replication
- 3) Translation is terminated when release factor binds of stop codon of m-RNA
- 4) Transcription of lac operon is initiated when inducer binds to operator region

- 132. Saheli oral contraceptive pill once in a week prevent inplatation of the fertilized egg by
  - 1) Prevents progesterone production
- 2) Pramote progesterone production
- 3) Prevent oestrogen production
- 4) Pramote oestrogen production
- 133. Study the following figure and identify A, B, C, D.



- 1) A-Coleoptile B-Radicle C- Plumule D- Coleorhiza
- 2) A-Plumule B-Plumule C- Coleorhiza D- Radicle
- 3) A-Coleoptile B- Plumule C- Radicle D- Coleorhiza
- 4) A-Plumule B-Coleoptile C- Coleoptile D- Radicle
- 134. Skeletal muscles are closely associated with the ....A.... components of the body. They have ...B.... appearance under the microscope and hence are called ... C... muscles. Choose the correct options to fill A, B and C.
  - 1) A-muscular, B-striped, C-striated
- 2) A-visceral, B-striped, C-striated
- 3) A-skeletal, B-striped, C-striated
- 4) A-microfibrillar, B-striped, C-striated
- 135. Identify the correct pair of combinations.
  - I) Chloroplast-----axidative phosphorylation
  - II) Glyoxysomes-----Glyoxylate cycle-----Convert stored lipids to carbohydrates
  - III) Mitochondria-----ATP-----photophosphorylation
  - IV) Golgi complex-----Cis and trans faces-----cell plate formation
  - 1) II. IV
- 2) I. III
- 3) II, III

4) III, IV

- 136. Choose correct combination.
  - 1) Macula-Otolith organ

- 2) Macula densa-afferent renal arteriole
- 3) Macula lutea-semicircular canal
- 4) Crista-Cochlea
- 137. Arrange the following in descending order based on their numbers.
  - I) no. of chromosomes in gamete of rice
  - II) no. of chromosomes in a meiocyte of potato
  - III) Total types of Histone proteins associated with eukaryotic DNA
  - IV) Number of chromosomes in a meiocyte of Apple
  - 1) IV, II, I, III
- 2) II, I, IV, III
- 3) III, I, IV, II
- 4) II, IV, I, III

138. Match the following.

**Scientist** 

Contribution

- A) Alexander von Humboldt
- I) Popularised Biodiversity

B) Edward wilson

II) Biodiversity & productivity

C) Paul Ehrlich

III) Species-area relationship curve

D) Tilman's outdoor plots

- IV) Rivet proper hypothesis
- V) Resource partitioning
- $1) \ A-III,B-I,C-V,D-II \quad \ 2) \ A-III,B-I,C-IV,D-II \quad 3) \ A-II,B-I,C-IV,D-V$
- 4) A-V,B-I,C-IV,D-II
- 139. In which of the following plant/animal highest number of chromosomes seen.
  - 1) Ophioglossum
- 2) Onion
- 3) Fruit fly
- 4) House fly
- 140. Find incorrect statement related to human reproductive system.
  - 1) LH surge causes rupture of graafian follicle resulting in ovulation
  - 2) Chorion is derived from somatopleure
  - 3) Mesoderm is formed by ingression
  - 4) Chorio allantoic placenta is formed in humans

3) GUU, GUC, GUA, GUG-Valine 4) GCU, GCC, GCA, GCG-Proline 150. Match the following columns. Column – I Column – II A. Cervical 1. 1 B. Thoracic 2. 1 C. Lumbar 3.5 D. Sacral 4.12 5.7 E. Caudal  $\mathbf{C}$  $\mathbf{C}$  $\mathbf{E}$ B D  $\mathbf{E}$ B D A A 3 3 2 1) 1 2 4 5 5 4 1 2) 3) 5 3 4 2 1 3 2 5 4

<b>151.</b>	In incomplete domina	nce F <sub>2</sub> phenotypic ratio	of pink, Red, white col	our flowers.
	1) 1: 2: 1	2) 2: 1:1	3) 1: 1:2	4) 1: 1: 1 : 1
<b>152.</b>	Select the correct			
	Interaction	Species A	Species B	
	1) Parasitism	+	+	
	2) Commensalism	-	-	
	3) Amensalism	-	0	
	4) Predation	+	+	
153.	_	of following steps of gel	l electrophoresis for the	separation of DNA
	fragments is.			
	I) Elution			
	*	on agarose gel surface		
	· -	fragments to U.V. ligh		
	,	ragments with ethidiur		4) I IV/ III II
151	1) IV, III, II, I	2) II, IV, III, I	3) II, III, IV, I	4) I, IV, III, II
154.	Path taken in the eye		(d. 1. 2) . 3	1
		•	ns (through pupil) $\rightarrow$ vit	
			ns (through pupil) $\rightarrow$ vitr	
			$\rightarrow$ aqueous humor $\rightarrow$ vit	
			ns (through pupil) $\rightarrow$ aqu	$1eous humor \rightarrow retina$
155.	<b>Identify the correct co</b>	mbination.		
	1) Indole compounds	_ 2, 4, D Removal	of apical dominance	
	2) Tomato seeds c	ontain some chemicals_	stratification	
	3) Cousins A gase	ous PGR Respirator	ry climactic	
	4) CabbageAnnua	lMonocarpic plant		
<b>156.</b>	Many diseases can be	diagnosed by observing	g the symptoms in the pa	atient. Which group of
	symptoms are indicati	ive of pneumonia?		
	1) Fever chills, cough, 1	headache		
	2) Constipation, abdom	inal pain, cramps, blood	clots	
	3) Sever problems in re	spiration, lips finger nail	ls many turn to grey to bl	uish
	4) High fever, weaknes	s, stomach pain loss of a	ppetite and constipation	
157.	Study the following lis	sts.		
	List -I	List- II		
	A) Anaphase-I	I) Splitting of the cent	tromere	
	B) Anaphase-II	II) Recombination no	dules	
	C) Pachytene	III) Homologous chro	mosomes separate, whil	le sister chromatids
	associated at their	centromere		
	D) Diakinesis		gned on the equatorial <b>p</b>	
		V) Nuclear envelope l	pecomes thin and breaks	s down
	The correct match is		G <b>T</b>	
	A B C D	A B		
	1) III I II V	2) I III		
150	3) II III V IV	,	II IV	40 A0 and namaining 160
158.				to Aa and remaining 160
	1) 0.5	iata, the frequency of a 2) 0.6	llele A in the population 3) 0.7	4) 0.4
150	<i>'</i>	,	,	/
137.	respectively.	nes are present in each	of the following with re	spect to omon plant
		h) antinodal cell c) ende	osperm cell d) generativ	e cell e) egg cell
	f) megaspore g) micro		osperm cen u, generanv	
	1) 8,16,8,8,8,16,24	2) 24,8,16,8,16,8,8	3) 16,8,8,8,16,24,8	4)16,8,24,8,8,8,16
	-, 0,10,0,0,10,21	_,,0,10,0,10,0,0	2, 10,0,0,0,10,21,0	.,, .,, ., ., .,

1611	One of the following is	the set of infective ste	ages to emythmogratus of	f man in the life cycle of
100.	malarial parasite	the set of infective su	iges to erythrocytes o	i man in the me cycle of
	_	netacryptozoite, Erythi	coartia marazaitas	
	,	metacryptozoite, Erytii metacryptozoite, Sporo	•	
	,	• • •		
		metacryptozoite, Eryth	•	
171	,	ites, Micro metacerypto		
161.				n, the former is required for
	•	the latter for of IAA		
	I) Constituent of chlo		II) Maintenance of	
		in photosynthesis	IV) Co-factor for (	carboxypeptidase
	V) Component of met			
	The correct answer is			
	1) II, V	2) IV, III	3) V, I	4) IV, II
<b>162.</b>	Which of the following	g statements is correct	?	
	1) Homo erectus is the	ancestor of man		
	2) Cromagnon man's f	fossil has been found in	Ethiopia	
	3) Australopithecus is	the real ancestor of mo	dern man	
	4) Closest relative of H	Homo sapiens is cromag	non man	
<b>163.</b>	Find out the incorrect	t pair of statements.		
	I) In completely plasm	nolysed cell, pressure	potential does not cor	ntribute to water potential
				ll membrane shrinks away .
	from its cell wall	• •	9 ,	·
	III) Apoplastic systen	n comprises of interco	nnected protoplasts	
		e more imbibing capa		ides
	1) I, IV	2) III, IV	3) II, III	4) I, II
164.	How many of the follo	· · · · · · · · · · · · · · · · · · ·	, ,	, , ,
	stomach are damaged	_		
	I. The absorption of v			
		epsinogen and proren	nin are not activated	
		provided to the food		
		provided to the room	or the stormach	
		roteins is affected		
	IV. The digestion of p		3) Only two	4) All the four
165	<b>IV.</b> The digestion of part 1) Only one	2) Only three	3) Only two	4) All the four
165.	IV. The digestion of p 1) Only one The correct sequence	2) Only three	,	4) All the four nents in non-cyclic electron
165.	IV. The digestion of p 1) Only one The correct sequence transport	2) Only three of the involvement of	the following compo	nents in non-cyclic electron
165.	IV. The digestion of p 1) Only one The correct sequence transport I) PC	2) Only three of the involvement of II) PQ	,	
165.	IV. The digestion of p 1) Only one The correct sequence transport I) PC The correct sequence	2) Only three of the involvement of II) PQ is	the following composition (III) Pheo	nents in non-cyclic electron  IV) NADP+
	IV. The digestion of p 1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV	2) Only three of the involvement of II) PQ is 2) III, II, I, IV	the following compo	nents in non-cyclic electron
	IV. The digestion of p 1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea	2) Only three of the involvement of II) PQ is 2) III, II, I, IV Il body is to	the following comportant III) Pheo  3) IV, I, II, III	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I
	IV. The digestion of p 1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin col-	2) Only three of the involvement of II) PQ is 2) III, II, I, IV Il body is to our	the following comportant III) Pheo 3) IV, I, II, III 2) Control sexual be	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I
166.	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin cold 3) Regulate the period	2) Only three of the involvement of II) PQ is 2) III, II, I, IV Il body is to our of puberty	the following comportant III) Pheo  3) IV, I, II, III	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I
166.	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin cold 3) Regulate the period Identify the correct p	2) Only three of the involvement of II) PQ is 2) III, II, I, IV Il body is to our of puberty air of combination	the following comportant III) Pheo 3) IV, I, II, III 2) Control sexual be 4) All of these	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I
166.	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin cold 3) Regulate the period Identify the correct p I) Vallisneria - Long s	2) Only three of the involvement of II) PQ is 2) III, II, I, IV Il body is to our of puberty air of combination stalked female flowers	the following comportant III) Pheo 3) IV, I, II, III 2) Control sexual be 4) All of these	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I
166.	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin col 3) Regulate the period Identify the correct p I) Vallisneria - Long s II) Tribulus - Ephemo	2) Only three of the involvement of II) PQ is 2) III, II, I, IV Il body is to our of puberty air of combination stalked female flowers erals	the following comport III) Pheo 3) IV, I, II, III 2) Control sexual be 4) All of these - Hypohydrophily	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I ehavior
166.	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin col 3) Regulate the period Identify the correct p I) Vallisneria - Long s II) Tribulus - Ephemo III) Hydrilla - Subme	2) Only three of the involvement of II) PQ is 2) III, II, I, IV Il body is to our of puberty air of combination stalked female flowers erals erged suspended hydro	the following comport III) Pheo 3) IV, I, II, III 2) Control sexual be 4) All of these 4 - Hypohydrophily ophyte - Aerenchyma	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I ehavior
166.	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin cold 3) Regulate the period Identify the correct p I) Vallisneria - Long s II) Tribulus - Ephemo III) Hydrilla - Subme IV) Casuarina - Peren	2) Only three of the involvement of II) PQ is 2) III, II, I, IV Il body is to our of puberty air of combination stalked female flowers erals erged suspended hydronnial-Succulent phyllo	the following comport III) Pheo 3) IV, I, II, III 2) Control sexual be 4) All of these 4- Hypohydrophily ophyte - Aerenchyma oclades	IV) NADP+  4) III, II, IV, I ehavior
166. 167.	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin cold 3) Regulate the period Identify the correct p I) Vallisneria - Long s II) Tribulus - Ephemo III) Hydrilla - Subme IV) Casuarina - Perei 1) III, IV	2) Only three of the involvement of II) PQ is 2) III, II, I, IV Il body is to our of puberty air of combination stalked female flowers erals erged suspended hydro nnial-Succulent phyllo 2) I, III	the following comport III) Pheo 3) IV, I, II, III 2) Control sexual be 4) All of these 4 - Hypohydrophily ophyte - Aerenchyma oclades 3) I, IV	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I ehavior  4) II, III
166. 167.	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin col 3) Regulate the period Identify the correct p I) Vallisneria - Long s II) Tribulus - Ephemo III) Hydrilla - Subme IV) Casuarina - Perei 1) III, IV The type of movement	2) Only three of the involvement of II) PQ is 2) III, II, I, IV II body is to our of puberty air of combination stalked female flowers erals erged suspended hydro nnial-Succulent phyllo 2) I, III it exhibited by macrop	the following comport III) Pheo 3) IV, I, II, III 2) Control sexual be 4) All of these 4 - Hypohydrophily ophyte - Aerenchyma oclades 3) I, IV chages and leucocytes	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I ehavior  4) II, III
<ul><li>166.</li><li>167.</li><li>168.</li></ul>	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin cold 3) Regulate the period Identify the correct p I) Vallisneria - Long s II) Tribulus - Ephemo III) Hydrilla - Subme IV) Casuarina - Peren 1) III, IV The type of movemen 1) Ciliar movement	2) Only three of the involvement of II) PQ is 2) III, II, I, IV II body is to our of puberty air of combination stalked female flowers erals erged suspended hydro nnial-Succulent phyllo 2) I, III it exhibited by macrop 2) Amoeboid moven	the following comport III) Pheo 3) IV, I, II, III 2) Control sexual be 4) All of these 4 - Hypohydrophily ophyte - Aerenchyma oclades 3) I, IV chages and leucocytes	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I ehavior  4) II, III
<ul><li>166.</li><li>167.</li><li>168.</li></ul>	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin cold 3) Regulate the period Identify the correct p I) Vallisneria - Long s II) Tribulus - Ephemo III) Hydrilla - Subme IV) Casuarina - Peren 1) III, IV The type of movemen 1) Ciliar movement Which is not true for	2) Only three of the involvement of II) PQ is 2) III, II, I, IV II body is to our of puberty air of combination stalked female flowers erals erged suspended hydro nnial-Succulent phyllo 2) I, III it exhibited by macrop 2) Amoeboid moven monocot stem?	III) Pheo  3) IV, I, II, III  2) Control sexual be 4) All of these  4 - Hypohydrophily  ophyte - Aerenchyma oclades  3) I, IV  ohages and leucocytes  ent 3) Flagellor move	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I ehavior  4) II, III
<ul><li>166.</li><li>167.</li><li>168.</li></ul>	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin col 3) Regulate the period Identify the correct p I) Vallisneria - Long s II) Tribulus - Ephemo III) Hydrilla - Subme IV) Casuarina - Peren 1) III, IV The type of movemen 1) Ciliar movement Which is not true for 1) Presence of conjoint	2) Only three of the involvement of II) PQ is 2) III, II, I, IV II body is to our of puberty air of combination stalked female flowers erals erged suspended hydro nnial-Succulent phyllo 2) I, III It exhibited by macrop 2) Amoeboid moven monocot stem? t, collateral and closed	III) Pheo  3) IV, I, II, III  2) Control sexual be 4) All of these  4 - Hypohydrophily  ophyte - Aerenchyma oclades  3) I, IV  ohages and leucocytes  ent 3) Flagellor move	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I ehavior  4) II, III
<ul><li>166.</li><li>167.</li><li>168.</li></ul>	IV. The digestion of p  1) Only one The correct sequence transport I) PC The correct sequence 1) II, I, III, IV The function of pinea 1) Lighten the skin cold 3) Regulate the period Identify the correct p I) Vallisneria - Long s II) Tribulus - Ephemo III) Hydrilla - Subme IV) Casuarina - Peren 1) III, IV The type of movemen 1) Ciliar movement Which is not true for	2) Only three of the involvement of  II) PQ is 2) III, II, I, IV il body is to our of puberty air of combination stalked female flowers erals erged suspended hydro nnial-Succulent phyllo 2) I, III it exhibited by macrop 2) Amoeboid moven monocot stem? t, collateral and closed sheath	III) Pheo  3) IV, I, II, III  2) Control sexual be 4) All of these  4- Hypohydrophily  phyte - Aerenchyma oclades  3) I, IV  phages and leucocytes and leuco	nents in non-cyclic electron  IV) NADP+  4) III, II, IV, I ehavior  4) II, III

## 170. The structures associated with excretory function in cockroach are

- 1) Malpighian tubules, Fat bodies, Nephrocytes, Cuticle only
- 2) Malpighian tubules, Fat bodies, Nephrocytes, uricose glands & cuticle
- 3) Malpighian tubules, Fat bodies Nephrocytes, only
- 4) Malpighian tubules & Cuticle only

### 171. Tyloses are

- 1) Totipotent cells in vascular bundle
- 2) Structure that block the lumen of xylem vessels
- 3) Epidermal outgrowths that help in water loss due to transpiration
- 4) Wound healing secretions in phloem tissue

### 172. The best milch breed in the world is.

- 1) Chittagong
- 2) Deon
- 3) *Holstein –Friesian*
- 4) Red sindhi

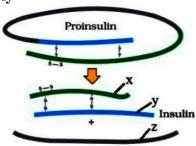
# 173. The use of bio resource by different organizations without proper authorizations from concerned people and without the compensatory payment is called

- 1) Bioremediation
- 2) Bio –war
- 3) Biofortification
- 4) Biopiracy

# 174. Mac Arthur showed that five closely related species of warblers. Living on the same tree was able to avoid competition and co – exist due to

- 1) Structural differences in their foraging activities
- 2) Physiological differences in their foraging activities
- 3) Anatomical differences in their foraging activities
- 4) Behavioral differences in their foraging activities

### 175. Identify the X, Y, Z respectively



- 1) A-Peptide, C-peptide, B-Peptide
- 2) B-peptide, C-peptide, A-peptide
- 3) A-peptide, B-peptide, C-peptide
- 4) B-peptide, A-peptide, C-peptide

### 176. Sound produced by jet planes during takeoff is around and above

- 1) Above 150 db
- 2) 30 db
- 3) 60 db
- 4) 90 db

### 177. Bio patents are

- a) Right to use the invention
- c) Right to use the products
- 1) a, d-only
- 2) b, c only
- b) Right to use the biological entities
- d) Right to use the process
- 3) c, d only
- 4) a, b, c and d

# 178. Match the following cyclical changes on the head of daphnia & corresponding seasons Set II

a) Appearance of projection

- 1) Autumn
- b) Round head without projection
- 2) Spring
- c) Projection begins to decrease
- 3) Summer
- d) Helmet like projection of maximum size
- 4) Winter

1) a- 2 b - 4 c - 1 d - 3

2) a - 4 b - 2 c - 1 d - 3

3) a - 3 b - 1 c - 4 d - 2

4) a - 3 b - 2 c - 4 d - 1

# 179. A genetically engineered micro organism used successfully in bioremediation of oil spills is a species of

- 1) Bacillus
- 2) Trichoderma
- 3) Xanthomonas
- 4) Peseudomonas

## 180. Match the following

List -I

List –II

- A) Bamboo
- I) Anadromous migration
- B) Oysters
- II) Produce a large number of small sized organisms
- C) Mammal
- III) Breeds only once in its life time
- D) Hilsa
- IV) Produce a small number of large sized organisms.
- 1) A –III, B –II, C-IV, D-I

2) A –I, B-II, C-III, D-IV

3) A-II, B-IV, C-I, D-III

4) A-IV, B-I, C-IV, D-II