

**D.** Platelets

_			S R	RIGA	ATRI EDUCATION	IAL INSTITUTION	S - AP & TS							
	1) A	=3, B	= 4, C	C=1, D	=2	2) A=4, B=3,C=2,D=	-1							
	3) A	=1, B	=2, C	=3, D=	=4	4) A=2, B=3, C=4,D=1								
95.	Mat	tch th	e follo	owing	with reference to king	dom Protista								
	List	- I			List- 2									
	I. D	iatom	S		A. Multinucleate ag	gregate plant body of s	slimemoulds							
	II. F	Plasmo	odiun	1		B. Kieselgur and rejuvenatory spores								
	III.	Eugle	enoids	5	C. Protozoan with i	C. Protozoan with infectious spore like stage in life cycle								
	IV.	Dinof	lagell	ates	D. Bioluminiscence	•								
	E. Proteinaceous pellicle and myxotrophic nutrition													
	The correct match is													
		Ι	II	III	IV									
	1)	В	С	E	D									
	2)	С	А	E	В									
	3)	В	А	С	E									
	4)	D	С	E	В									
96.			y syst	em alo	losterone takes part in	retention of								
	1) <i>k</i>	$X^+$			2) <i>Na</i> <sup>+</sup>	3) Water	4) Both 2 & 3							
97.					ng division of fungi inc	6								
		eutero	2		2) Zygomycetes	3) Basidiomycetes	4) Ascomycetes							
<b>98.</b>	Statement I : Red muscle can also be called aerobic muscle													
						y of mitochondria whic	h can utilize the large							
			•	0	ored in them.									
	· ·				nd statement II are corre									
					d statement II are incor	rect								
	· ·				ct but II is incorrect									
0.0	,				rect but II is correct	0								
99.			y gro	wth oc	curs in stem and roots									
100		oicots			2) Gymnosperms	3) Monocots	4) Both 1 & 2							
100.					the brain is	$2) C_{2} = 1 = 1 = 1 = 1$	(1) II							
101	,	orpus			2) Crura cerebri	3) Cerebral cortex	4) Hypothalamus							
101.		ct the			related to Dryopteris									
					aincinnata normation									
		0			v circinnate vernation ed with ramenta									
					ed with ramenta ed by true indusium									
		& B		cover	2) C & D only	3) A, B & C only	4) All the above							
	I	a a b	omy		$2) \subset \alpha D Only$	$J$ $A$ , $D \propto C$ only	+) All the above							

102. Observe the following graph with respect to menstrual cycle and identify A and B

Week 2

**Preovulatory phase** 

post ovulatory phase

- 1) A- Oestrogen; B- progesterone
- 2) A- FSH; B- LH 4) A- LH; B- FSH
- 3) A- Progesterone; B- Oestrogen

# 103. Cyathium and Hypanthodium are similar in having

- 1) Achlamydeous flower
- 3) Unisexual flowers

- 2) Bisexual flowers4) Neutral flowers
- 4) Ne
- **104.** Which of the following is not true about uterus
  - 1) It is attached to the pelvic wall
  - 3) It opens into vagina through cervix
- 2) It is an inverted pear shaped structure
- 4) It forms birth canal along with cervix

105.	3.5 4 3 4	1 0 11	•						
	Match t	he follo	wing						
	List- I				List- II				
	I. Assim	ilatory	roots		A. Cuscuta				
	II. Nodu	ılar roo	ts		B. Radish				
	III. Fusi	iform ta	proof	ţ	C. Taenior	ohyllum			
	IV. Con	iplete p	arasit	e	D. Ground	l nut			
	With wi								
	Ι	II	III	IV					
	1) C	D	B	A					
	1) C 2) C	A							
	2) C 3) D	A	B	D C					
	,								
107	4) C	D	A	В					
106.	Zona pe		-	pears			11		
	1) After						re blastocyst for		
	3) Befor					/	morula formation		
107.								d onion respeclively?	
	1) Corm			· ·	lene, Sucker	,	ome, Bulb	4) Offsets, Bulb	
108.	Which o	of the fo	llowiı	ng pedigr	ree can be fo	or haemophi	lia?	-	
					•		-•	<b>-</b> 0	
		0					_		
				Д		•	<u>ь</u> -о	<b>∳</b> ┬─₽ <b>∲</b> ┬─₽	
		<u> </u>						6 24	
	<sub>1)</sub> Ь	<u> </u>		2) 6	7	3)			
100	/		•	/		/		4) ♦ ♦	
109.	•		0			he correct o	•		
				-	r plants asex	al reprodu	ction can occui	both before and during	
	their ma		-		• •	• • •			
					her plants u			re never observed	
	1) Both					2) SI 18	true but SII is fa	lse	
	3) SI is f	oloo but					TTD 0 TD		
110.						,	SI & SII are tru		
	Match c			column	-	,	retory system o	choose the correct option.	
		olumn 1	I with	column Colui	mn –I	g human exc	retory system o C	choose the correct option. olumn -II	
	A. Epi	column i thelial o	I with	column Colui f Bowma	mn –I an's capasul	g human exc e	retory system o C 1. Juxtamedu	choose the correct option. olumn -II	
	A. Epi B. Ext	thelial (	I with cells o of cor	column Colui f Bowma tex betwo	mn –I m's capasul een the med	g human exc e	retory system o C	choose the correct option. olumn -II	
	A. Epi B. Ext	thelial of ension of yramid	I with cells o of cor ls as r	column Colum f Bowma tex betwo real colum	mn –I m's capasul een the med nns	g human exc e ullary	retory system o C 1. Juxtamedu 2. Vasa recta	choose the correct option. olumn -II llary nephron	
	A. Epi B. Ext I C. Nej	thelial of ension of pyramid	I with cells o of cor ls as r with l	column Colum f Bowma tex betwo real colum ong loop	mn –I m's capasul een the med	g human exc e ullary	retory system o C 1. Juxtamedu 2. Vasa recta	choose the correct option. olumn -II	
	A. Epi B. Ext I C. Nep i	thelial of ension of oyramid ohrons y nto the	I with cells o of cor ls as r with l medu	column Colum f Bowma tex betwo ceal colum ong loop lla	mn –I an's capasul een the med nns of Henle ru	g human exc e ullary nning deep	retory system o C 1. Juxtamedu 2. Vasa recta	choose the correct option. olumn -II llary nephron	
	A. Epi B. Ext I C. Nep i D. A f	thelial of ension of oyramid ohrons nto the ine vess	I with cells o of cor ls as r with l medu el of t	column Colui f Bowma tex betwo real colum ong loop Illa he peritu	mn –I m's capasul een the med nns of Henle ru ıbular capill	g human exc e ullary nning deep	retory system o C 1. Juxtamedu 2. Vasa recta	choose the correct option. olumn -II llary nephron	
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	A. Epi B. Ext I C. Nep i D. A fi	thelial of ension of oyramid ohrons of nto the ine vess running	I with cells o of cor ls as r with l medu el of t para	column Colum f Bowma tex betwo real colum ong loop Illa he peritu llel to He	mn –I m's capasul een the med nns of Henle ru ıbular capill	g human exc e ullary nning deep laries	retory system ofC1. Juxtamedu2. Vasa recta3. Juxtaglome	choose the correct option. olumn -II llary nephron rular apparatus	
	A. Epi B. Ext B. Ext C. Nep i D. A fi E. A s	thelial of ension of pyramid phrons y nto the ine vess running pecial so	I with cells o of cor ls as r with I medu el of t paral ensitiv	column Colum f Bowma tex betwo ceal colum ong loop Illa he peritu llel to He we region	mn –I m's capasul een the med nns of Henle ru ibular capill enel's loop	g human exc e ullary nning deep laries ` and	retory system ofC1. Juxtamedul2. Vasa recta3. Juxtaglome4. Podocytes	hoose the correct option. olumn -II llary nephron rular apparatus Bertini	
	A. Epi B. Ext F C. Nej i D. A fi E. A sj	thelial of ension of pyramid phrons y nto the ine vess running pecial so	I with cells o of cor ls as r with I medu el of t paral ensitiv	column Colum f Bowma tex betwo ceal colum ong loop Illa he peritu llel to He we region	mn –I an's capasul een the med nns of Henle ru ibular capill enel's loop in the DCT	g human exc e ullary nning deep laries ` and	retory system ofC1. Juxtamedul2. Vasa recta3. Juxtaglome4. Podocytes5. Columns of	hoose the correct option. olumn -II llary nephron rular apparatus Bertini	
	A. Epi B. Ext F C. Nej i D. A fi E. A sj	thelial of ension of opramid ohrons y nto the ine vess running pecial so offerent contact	I with cells o of cor ls as r with I medu el of t paral ensitiv arter	column Colum f Bowma tex betwo real colum ong loop Illa he peritu Ilel to He ve region iole at th	mn –I an's capasul een the med nns of Henle ru ibular capill enel's loop in the DCT	g human exc e ullary nning deep laries ` and f their	retory system ofC1. Juxtamedul2. Vasa recta3. Juxtaglome4. Podocytes5. Columns of	choose the correct option. olumn -II llary nephron rular apparatus Bertini phron	
	A. Epi B. Ext B. Ext C. Nej i D. A fi E. A sj a ( 1) A-5;E 3) A-2;E	thelial of ension of oyramid ohrons of nto the ine vess running pecial so offerent contact 3-1;C-2; 3-4;C-6;	I with cells of of cor ls as r with le medu el of t paral ensitiv arter D-3;E D-1;E	column Colun f Bowma tex betwo ceal colum ong loop lla he peritu llel to He ve region iole at th	mn –I m's capasul een the med nns of Henle ru Ibular capill enel's loop in the DCT e location o	g human exc e ullary nning deep laries C and f their 2) A-4;F 4) A-4;F	retory system ofC1. Juxtamedul2. Vasa recta3. Juxtaglome4. Podocytes5. Columns of6. Cortical ne3-3;C-6;D-5;E-13-5;C-1;D-2;E-3	choose the correct option. olumn -II llary nephron rular apparatus Bertini phron	
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	A. Epi B. Ext B. Ext C. Nep i D. A ff E. A sp a C 1) A-5;E 3) A-2;E Choose I. Wolff V. Roya 1) VII, V	thelial of ension of opramid ohrons y nto the ine vess running pecial so afferent contact 3-1;C-2; 3-4;C-6; the corr ia 1 fern /, III, V	I with cells o of cor ls as r with I medu el of t paral ensitiv arter D-3;E D-1;E rect as	column Colum f Bowma tex betwo ceal colum ong loop illa he peritu ilel to He ve region iole at th -4 -3 scending II. Can VI. Ba	mn —I an's capasul een the med nns of Henle ru Ibular capill enel's loop in the DCT ie location o sequence of rrot inana	g human exc e ullary nning deep laries ' and f their 2) A-4;I 4) A-4;I f the followir III. Ros VII. Ba 2) I, VII	retory system ofC1. Juxtamedul2. Vasa recta3. Juxtaglome4. Podocytes5. Columns of6. Cortical ne3-3;C-6;D-5;E-13-5;C-1;D-2;E-3ng plants with rne plantnyan tree	<pre>choose the correct option. olumn -II llary nephron rular apparatus 'Bertini phron 'Bertini ty. Rice plant VIII. Moss plant V, VII</pre>	
111.	A. Epi B. Ext B. Ext C. Nej i D. A fi E. A sj a C 1) A-5;E 3) A-2;E Choose I. Wolff V. Roya 1) VII, V 3) I, VII	thelial of ension of opyramid ohrons v nto the ine vess running pecial so offerent contact on	I with cells o of cor ls as r with l medu el of t paral ensitiv arter D-3;E D-1;E rect as	column Colum f Bowma tex betwo ceal colum ong loop illa he peritu llel to He ve region iole at th -4 -3 scending II. Can VI. Ba V, VIII, I II, VII, V	mn –I m's capasul een the med nns of Henle ru ibular capill nel's loop in the DCT ie location of sequence of rrot inana	g human exc e ullary nning deep laries C and f their 2) A-4;F 4) A-4;F f the followir III. Ros VII. Ba 2) I, VII 4) I, VII	retory system ofC1. Juxtamedul2. Vasa recta3. Juxtaglome4. Podocytes5. Columns of6. Cortical ne3-3;C-6;D-5;E-13-5;C-1;D-2;E-3ng plants with rnyan treeI, IV, II, VI, III,	<pre>choose the correct option. olumn -II llary nephron rular apparatus 'Bertini phron 'Bertini ty. Rice plant VIII. Moss plant V, VII</pre>	
111.	A. Epi B. Ext B. Ext C. Nej i D. A ff E. A sj 2 2 1) A-5;E 3) A-2;E Choose I. Wolff V. Roya 1) VII, V 3) I, VII Hisarda	thelial of ension of oyramid ohrons of nto the ine vess running pecial so offerent contact 3-1;C-2; 3-4;C-6; the corr ia 1 fern /, III, IV, le is a r	I with cells o of cor ls as r with l medu el of t paral ensitiv arter D-3;E D-1;E rect as I, II, I VI, I esulta	column Colum f Bowma tex betwo ceal colum ong loop illa he peritu ilel to He ve region iole at th -4 -3 scending II. Can VI. Ba V, VIII, I II, VII, V	mn –I m's capasul een the med nns of Henle ru ibular capill enel's loop in the DCT ie location of sequence of rrot inana	g human exc e ullary nning deep laries C and f their 2) A-4;F 4) A-4;F f the followir III. Ros VII. Ba 2) I, VII 4) I, VII	retory system ofC1. Juxtamedul2. Vasa recta3. Juxtaglome4. Podocytes5. Columns of6. Cortical ne3-3;C-6;D-5;E-13-5;C-1;D-2;E-3ng plants with ree11, IV, II, VI, III, VI, V	espect to their life- span IV. Rice plant VIII. Moss plant V, VII V, VII	
111.	A. Epi B. Ext B. Ext C. Nep i D. A ff E. A sp a d 1) A-5;E 3) A-2;E Choose I. Wolff V. Roya 1) VII, V 3) I, VII Hisarda 1) Marin	thelial of ension of opramid ohrons with ine vess running pecial so different contact 3-1;C-2; 3-4;C-6; the corria ia 1 fern /, III, V I, III, V le is a r to ewes	I with cells o of cor ls as r with I medu el of t paral ensitiv arter D-3;E D-1;E rect as I, II, I VI, I esulta and B	column Colum f Bowma tex betwo ceal colum ong loop illa he peritu llel to He ve region iole at th -4 -3 scending II. Can VI. Ba V, VIII, I II, VII, V	mn –I an's capasul een the med nns of Henle ru ibular capill enel's loop in the DCT ie location o sequence of rrot inana	g human exc e ullary nning deep laries ' and f their 2) A-4;F 4) A-4;F f the followir III. Ros VII. Ba 2) I, VII 4) I, VII een 2) Marin	retory system ofC1. Juxtamedul2. Vasa recta3. Juxtaglome4. Podocytes5. Columns of6. Cortical ne3-3;C-6;D-5;E-13-5;C-1;D-2;E-3ng plants with rnyan treeI, IV, II, VI, III,	choose the correct option.          olumn -II         llary nephron         rular apparatus         Bertini         phron         Bertini         phron         Kespect to their life- span         IV. Rice plant         VIII. Moss plant         V, VII         V, VII         V, VII         Tino rams	

	S R I G A Y A T	RI EDUCATIONA	L INSTITUTIONS -	AP & TS		
113.	Bentham and Hooker's	classification is publi	shed in a book namely			
	1) Historia plantarum		2) Species plantarum			
	3) Families of flowering p		4) Genera plantarum			
114.	A human protein which	is being obtained fro	m transgenic animals a	nd is used to treat		
	emphysema is 1) Insulin 2	) of Lontiturnain	2) v. Lontiturgin	1) Alpha Lastalhumin		
115	,		3) $\gamma$ -I antitrypsin	4) Alpha- Lactalbumin		
115.	Correct Floral formula	-		$A \cdot 2 \cdot C(2)$		
	1) Br Brl $\oplus$ K4C4 A4 C	r(4)	2) Br Brl K2+2 C4 A			
	3) Ebr EbrlK2+2 C4 A	2+4 G(2)	4) Ebr Ebrl %K4 C4	A4 $G(4)$		
116.	C- Peptide of human ins	ulin is				
	1) A part of mature insulin	n molecule	2) Responsible for its b	biological activity		
	3) Added during maturation	-				
118	4) Removed during matur	-				
117.	Cytoplasm of adjacent c 1) Plasma membrane	ells is interconnected	<b>by</b> 2) Primary cell wall			
	3) Plasmodesmata		4) Middle Lamallae			
118.	In an area, increase in p	opulation growth car	,	ality, mortality,		
	emigration and immigra			······································		
	1) 120, 850, 300 and 920	respectively	2) 250,350,600 and 500	respectively		
	3) 350,500,250 and 600 re		4) 150,220,600 and 670	respectively		
119.	The secondary metabolit	tes used as drugs are				
	<ol> <li>Abrin, Ricin</li> <li>Morphine, codeine</li> </ol>		2) Rubber, gums, cellulose			
120	The H-zone in the skelet	al muscle fibre is due	4) Vinblastin, curcumin			
1200	1) The central gap betwee					
	2) Central gap between ac	•		nts in the A-band		
	3) Extension of myosin fil					
	4) The absence of myofib	rils in the central porti	on of A- band			
121.	Study the following lists					
	List-I (Protein) I A. Antibody I	. Enables glucose tra	nsport into the cells			
	-	-	ground substance st infectious agents rotein in biosphere			
		II. Fights against info				
		V. Abundant protein				
		7. Hormonal function	n			
	The correct match is					
	ABCD1)IIIIII					
	1) III I II IV 2) III I IV V					
	3) III IV II I					
	4) III II V IV	7				
122.	The most severe threat t	o loss of biodiversity	is			
	1) Coextinction		2) Over exploitation			
100	3) Alien species extinction		4) Habitat loss/ fragmen	tation		
123.	A root tip cell onion show		a in aaah ahnamaaama			
	1) 16 chromosomes at $G_1$					
	2) 16 chromosomes at $G_2$					
	3) Same number of chrom	cosomes in $G_1$ and $G_2$				
	4) Same quantity of DNA	at $G_1$ stage and metap	phase			
124.	Green house gases are					
	1) Water vapour, $CO_2$ 2	$CH_4, CO$	3) $N_2O, CFC$	4) All the above		

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125.	The diploid chromosome number of maize is		ivalents, chromatids	
	and kinetochores in pachytene stage of its me	•	20.20.40	
126	1) 20,40,40 2) 10,40,40 <b>To which of the following categories does the</b>		20,20,40	
120.	1) Epithelial 2) Connective		Neural	
127.	The simple mechanical tissue present in the p	· · · · · · · · · · · · · · · · · · ·		
	1) Sclerenchyma2) Xylem	· · · · · · · · · · · · · · · · · · ·	Collenchyma	
128.	Which of the following represents the correct			
	<b>Characteristi</b> 1. Mammary gland; hair on body; pinnae; two		Class Mammalia	
	2. Mouth ventral, gills without operculum; ski		Chondrichthyes	
	persistent notochord	in white processes,	Chonantentinges	
	3. Sucking and circular mouth, jaws absent; in	ntegument without scales;	Cyclostomata	
	paired appendages			
	4. Body covered with feathers; skin moist and	glandular, forelimbs form	Aves	
129	wings; lungs with air sacs Analyse the following lists. Choose the correct	rt matching		
12/1	List- I	List- II		
	(Vascular bundle types)	(Part of a plant)		
	I. Bi collateral vascular bundle	A. Cucurbita root		
	II. Radial vascular bundle	B. Dicot root		
	III. Collateral closed vascular bundle	C. Leaf		
	IV. Collateral and open vascular bundle	D. Cucurbita stem		
	TV: Conuccial and open vascalar bundle	E. Sunflower stem		
	1) I-A, II-B, III-C, IV-E	2) I-D, II-B, III-C, IV-E		
	3) I-B, II-C, III-D, IV-A	4) A-D, II-C, III-E, IV-B		
130	Fertilization in Cockroach occurs in	-) <i>N</i> -D, II-C, III-L, I V-D		
150.	1) Ootheca 2) Genital chamber	3) Vestibulum	4) Vagina	
131	Find the true statements from the following	5) Vestibulum	r) v uginu	
151.	I. Phloem parenchyma and companion cells a	are nucleated cells		
	II. Phloem is a living tissue except bast fibres			
	III. Both xylem and phloem are useful for co		unnort	
	IV. The parenchyma in both xylem and phloe		upport	
	The correct answer is	chi is storage in function		
	1) I, II & IV 2) I, II, III	3) II, III, IV	4) I, III, IV	
132	In malignant tumours, the cells proliferate, g	, , ,	, , , ,	
102.	to form new tumours. This property of diseas		the pures of the body	
	1) Metagenesis 2) Mitosis	3) Teratogenesis	4) Metastasis	
133.	The sequence of communities of primary suc			
	1) Phytoplankton, sedges, free- floating hydropl	hytes, rooted hydrophytes, g	rasses and trees.	
	2) Phytoplankton, free- floating hydrophytes, ro			
	3) Free- floating hydrophytes, sedges, phytoplan	nkton, rooted hydrophytes, g	grasses and trees.	
	4) Phytoplankton, rooted submerged hydrophyto	es, floating hydrophytes, ree	d swamp, sedges,	
	meadow and trees.			
134.	The correct path followed by sound waves from	om external ear to inner ea	ar is:	
	1) Eardrum -auditory ossicles- fluid of cochlea-	- basilar membrane- hair cel	ls	
	2) Eardrum- basilar membrane- auditory ossicle	es- fluid of cochlea- hair cell	S	
	3) Eardrum- fluid of cochlea- auditory ossicles-	hair cells- basilar membran	e	
	4) Eardrum- hair cells- auditory ossicles- basilar	r membrane- fluid of cochle	a	

#### 135. The sequence of succession is

- 1) Lichens  $\rightarrow$  Mosses  $\rightarrow$  Grass  $\rightarrow$  Shurbs  $\rightarrow$  Trees
- 2) Trees  $\rightarrow$  Shurbs  $\rightarrow$  Lichens  $\rightarrow$  Mosses  $\rightarrow$  Grass
- 3) Mosses  $\rightarrow$  Shurbs  $\rightarrow$  Trees  $\rightarrow$  Lichens  $\rightarrow$  Grass
- 4) Lichens  $\rightarrow$  Trees  $\rightarrow$  Mosses  $\rightarrow$  Grass  $\rightarrow$  Shurbs

## 136. Match the following with correct combination:

- List-I List-II
- A. Hyaluronidase I. Acrosomal reaction
- **B.** Corpus Iuteum **II.** Morphogenetic movements
- C. Gastrulation **III.** Progesterone
- **D.** Capacitation **IV. Mammary gland**
- V. Sperm activation **E.** Colostrum
- 1) A-V, B- II, C- IV, D- I, E- III
- 2) A- I, B-III, C- II, D-V, E-IV 3) A-IV, B- II, C-V, D-III, E-I
  - 4) A- I, B- II, C-III, D-IV, E-V

# 137. A character which is expressed phenotypically in both homozygotes & heterozygotes is

- 1) Recessive character 3) Dominant character
- 2) Mutant character 4) Pleotropic character

# 138. Artificial insemination means:

- 1) Transfer of sperms of husband to a test tube containing ova
- 2) Transfer of sperms of a healthy donor directly into the vagina
- 3) Introduction of sperms of a health donor directly into the ovary
- 4) Transfer of sperms of a healthy donor to a test tube containing ova

# 139. Choose the incorrect statement

- 1) One DNA helix runs continuously from one end to the other in each chromatid
- 2) Heriditary variations in fruitfly can be seen with low power microscope
- 3) Fruit flies could be grown on simple synthetic medium in the laboratory
- 4) Mendel provided physical proof for the existence of factors.

# 140. A woman with normal vision, but whose father was colour blind, marries a colour blind man. Suppose that the fourth child of this couple was a boy. This boy

- 1) Must be colour blind
- 2) Must have normal colour vision
- 3) May or may not colour blind

# 4) Will be partially colour blind since he is heterozygous for the colour blind mutant allele

- 141. Chargaff's rule is applicable to
  - 1) Single stranded RNA

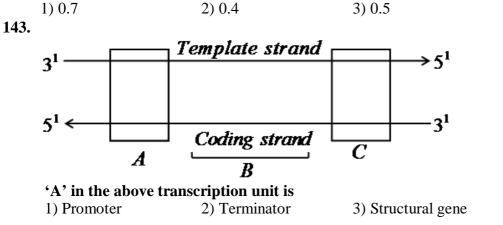
2) Single stranded DNA and RNA

4) 0.6

4) Regulator

4) Double stranded DNA and RNA

#### 3) Single stranded DNA 142. In a population of 1000 individuals 360 belong to genotype AA, 480 to Aa and the remaining 160 to aa. Based on this data, the frequency of allele A in the population is:



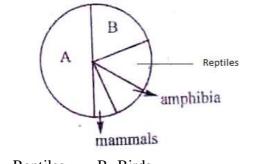
	3 K I		OCATIONAL I		VJ - AF & IJ						
144.	Read the follow	ing statements:									
	A. Mammalian	lungs are solid a	and spongy								
	<b>B.</b> Air enters int	to the lungs beca	ause chest expands	5							
		0	ate, residual air ar								
	D. Residual volume is volume of air in lungs after forceful expiration										
			expired air is more	-							
	How many state	•••	-	•							
	1) BCD	2) ABCI		E	4) ACD						
145.	,	,	ks bond between		,						
	1) Base pairs of a										
	2) Base pairs of a		brid molecule								
	· •	•	nts of nucleic acid r	nolecule							
	4) Exons and intr										
146.	·		ven below and cho	ose the correct	option:						
		0	splanted is dener		-						
	Statement -II. H		-		I U						
	1) Statement I &		. 0								
	2) Statement I &										
	3) Statement I co										
	4) Statement I in										
147.	Length of palino	drome which is	recognised by ECo	RI							
	1) 20.4 nm	2) 20.8	• •	1.4 $A^0$	4) 20.4 $A^0$						
148.	/	,	nts is correct with		/						
		•			d egg/ early embryo is th	en					
			lult female where t	•							
					is then taken out and grow	<i>w</i> n in					
	a large test tube			-	-						
	3) A prematurely	born baby is rea	red in a incubator								
	4) Fertilization of	f the egg and gro	wth of the embryo	is completed in	a large test tube						
149.	The cell walls of	eukaryotic plan	nt cells can be rem	oved by treatm	ent with						
	I. Lysozyme	II. Cellu	lase III.	Chitinase							
	1) I , II & III	2) I & II	only 3) I	& III only	4) II & III only						
150.			presents examples	of the followin	ng types of animals						
	I. Cold blooded										
	II. Warm blood										
	III. Animal with	•	ied skin								
	IV. Hermaphro										
	I	II	III	IV							
	1) Rabbit	Fish	Frog	Earthwor							
	2) Fish	Rabbit	Wall lizard	Earthwor	m						
	3) Pigeon	Frog	Crocodile	Starfish							
. – .	4) Fish	Frog	Crocodile	Earthwor	m						
151.	Which of the fol	lowing is a tran	<b>·</b>								
	1) Flavr Savr	• •		acillus thuringie	ensis						
	3) Meloidogyme	incognita	4) E	aculo virus							
150	Matah tha fallor		th thain naminatar		alaat tha aarmaat aat						
152.		0	th their respirator	y organs and s	elect the correct set						
	Set –I	Set –II									
	A. Earthworm B. Human	I. gills II. book	aille								
	B. Human C. Prawn	II. book III. Tra	•								
	D. Insect	III. 1 rad IV. Cuta									
	D. IIISCU										
		V. pulm	unai y								

		JK	IUAI		LEDUCATI	ONAL INSTITUTI	UNS - AP&IS
	Α	B	С	D			
	1) IV	V	III	II			
	2) IV	V	II	III			
	3) II	III	IV	V			
	4) IV	V	Ι	III			
153.					assica napus i	S	
	I. Suitable		-		0		
	II. Tolera						
			-		production		
	IV. Herbi		oleran		<b>TT</b> 1		
	1) II, III, I				III only	3) II, III only	4) III, IV only
154.	-	_			20 mm Hg an	-	80 mg Hg the pulse pressure is
	1) 120×80	)=96(	<i>J0 mm</i>	Hg		2) $120 + 80 = 200$	, and the second s
	3) 120-8	$0 - 40^{\circ}$	0mm	$H\sigma$		4) $\frac{120}{80} = 40  mm$	На
	5)120 0	0 – +0	omm 1	iig		$\frac{4}{80} = 40  mm$	11g
155.	N. Borlau	ig dev	eloped	l semi	i- dwarf whea	t variety in Mexico at	
	1) Internat	tional	centre	for w	heat and Rice	improvement	
	2) Internat	tional	centre	for w	heat, Rice and	maize	
						ey improvement	
						e improvement	
156.			wing a		elect the corre		
	Skeletal				mber of bone	S	
	A. Cranit			I. 1			
	B. Back b	one		II.			
	C. Face	_			. 24		
	D. Hindli	mb		IV.			
	E. Ribs			<b>V.</b>			
		n	a		. 30		
		B	C	D	E		
	1) V	II	III	I	IV		
	2) V 2) I	II	I	III	VI		
	3) I	II	III	IV VI	V		
157	4) V The <b>rise</b> -	II	I	VI	III d into India fi	nom Dhilinnings is	
15/.		ariety	/ intro		<b>d into india</b> il Sonora	rom Philippines is 3) TMV -3	1) Sweedish
150	1) IR8 The meter	far	duatio			e faster in case of	4) Sweedish
	The rate of				impuise win b		ad thick fibers
190.	1) Myolin	atad no	343V0 ±1				
130.	1) Myelina 3) Nonmy				a fiber	2) Un myelilnate (4) Both 1 & 2	de there notes
100,	<ol> <li>Myelina</li> <li>Nonmy</li> </ol>				e fiber	4) Both 1 & 2	a the fibers
	3) Nonmy	elinate	ed thin	nerv		4) Both 1 & 2	
	<ul><li>3) Nonmy</li><li>First plan</li></ul>	elinate	ed thin	nervo durin	ng the demons	4) Both 1 & 2 stration of totipotency	was
159.	<ul><li>3) Nonmy</li><li>First plan</li><li>1) Radish</li></ul>	elinate	ed thin <b>luced</b>	nerve durin 2)	<b>ng the demons</b> Carrot	<ul><li>4) Both 1 &amp; 2</li><li>stration of totipotency</li><li>3) Maize</li></ul>	<b>was</b> 4) Datura
159.	<ul><li>3) Nonmy</li><li>First plan</li><li>1) Radish</li><li>A pregnation</li></ul>	elinate It proc nt wor	ed thin <b>luced</b> men d	durin 2) ( eliver	ng the demons Carrot rs a baby who	<ul> <li>4) Both 1 &amp; 2</li> <li>stration of totipotency</li> <li>3) Maize</li> <li>suffers from stunted</li> </ul>	<b>was</b> 4) Datura
159.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>A pregnation</li> </ul>	elinate at proc nt wor ce and	ed thin duced men d l abno	durin 2) eliven	ng the demons Carrot 's a baby who skin. This is t	4) Both 1 & 2 stration of totipotency 3) Maize suffers from stunted the result to	was 4) Datura growth mental retardation, low
159.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>intelligender</li> <li>1) Hypo set</li> </ul>	elinate at proc nt wor ce and ecretio	ed thin duced men d l abno on of g	durin 2) eliven rmal	ng the demons Carrot rs a baby who	<ul> <li>4) Both 1 &amp; 2</li> <li>stration of totipotency</li> <li>3) Maize</li> <li>suffers from stunted</li> <li>the result to</li> <li>2) Over secretion</li> </ul>	<b>was</b> 4) Datura
159. 160.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>intelligend</li> <li>1) Hypo set</li> <li>3) Deficie</li> </ul>	elinate at proc nt wor ce and ecretio ncy of	ed thin luced men d l abno on of g	durin 2) ( eliven rmal rowth	ng the demons Carrot rs a baby who skin. This is t hormone	4) Both 1 & 2 stration of totipotency 3) Maize suffers from stunted the result to	was 4) Datura growth mental retardation, low
159. 160.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>intelligender</li> <li>1) Hypo set</li> <li>3) Deficie</li> <li>Micropro</li> </ul>	elinate at prod nt won ce and ecretio ncy of pagati	ed thin luced men d l abno on of g iodine ion is	durin 2) eliven rmal rowth e usefu	ng the demons Carrot rs a baby who skin. This is t hormone	<ul> <li>4) Both 1 &amp; 2</li> <li>stration of totipotency</li> <li>3) Maize</li> <li>suffers from stunted particular</li> <li>the result to</li> <li>2) Over secretion</li> <li>4) Cancer</li> </ul>	<b>was</b> 4) Datura <b>growth mental retardation, low</b> n from pars distalis
159. 160.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>intelligend</li> <li>1) Hypo set</li> <li>3) Deficie</li> <li>Microprooli. To generation</li> </ul>	elinate at proc nt won ce and ecretio ncy of pagati erate s	ed thin duced men d l abno on of g f iodina ion is somac	durin 2) ( eliven ormal rowth e usefu lonal	ng the demons Carrot rs a baby who skin. This is t hormone l variations wh	<ul> <li>4) Both 1 &amp; 2</li> <li>stration of totipotency <ul> <li>3) Maize</li> </ul> </li> <li>suffers from stunted for the result to <ul> <li>2) Over secretion</li> <li>4) Cancer</li> </ul> </li> <li>hich are exploited for the second statement of the second statement o</li></ul>	<b>was</b> 4) Datura <b>growth mental retardation, low</b> n from pars distalis
159. 160.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>intelligend</li> <li>1) Hypo set</li> <li>3) Deficie</li> <li>Micropro</li> <li>I. To gene</li> <li>II. To mu</li> </ul>	elinate at proc nt wor ce and ecretio ncy of pagati erate s ltiply	ed thin luced men d l abno on of g iodina ion is somacl geneti	durin 2) ( eliven rmal rowth e usefu lonal ically	ng the demons Carrot rs a baby who skin. This is t hormone l variations wh uniform popu	<ul> <li>4) Both 1 &amp; 2</li> <li>stration of totipotency <ul> <li>3) Maize</li> </ul> </li> <li>suffers from stunted for the result to <ul> <li>2) Over secretion</li> <li>4) Cancer</li> </ul> </li> <li>hich are exploited for the second statement of the second statement o</li></ul>	<b>was</b> 4) Datura <b>growth mental retardation, low</b> n from pars distalis
159. 160.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>intelligender</li> <li>1) Hypo set</li> <li>3) Deficie</li> <li>Micropro</li> <li>I. To generation</li> <li>II. To mu</li> <li>III. To generation</li> </ul>	elinate at proc nt won ce and ecretio ncy of pagati erate s ltiply nerate	ed thin duced men d l abno on of g iodina ion is comacl geneti e new	durin 2) ( eliven ormal rowth e usefu lonal ically specie	ng the demons Carrot rs a baby who skin. This is t hormone l variations wh uniform popu es	<ul> <li>4) Both 1 &amp; 2</li> <li>stration of totipotency <ul> <li>3) Maize</li> </ul> </li> <li>suffers from stunted for the result to <ul> <li>2) Over secretion</li> <li>4) Cancer</li> </ul> </li> <li>hich are exploited for the second statement of the second statement o</li></ul>	<b>was</b> 4) Datura <b>growth mental retardation, low</b> n from pars distalis
159. 160.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>intelligend</li> <li>1) Hypo set</li> <li>3) Deficie</li> <li>Microprooi</li> <li>I. To generation</li> <li>II. To generation</li> <li>III. To generation</li> <li>III. To generation</li> <li>IV. To press</li> </ul>	elinate at proc nt wor ce and ecretio ncy of pagati erate s ltiply nerate oduce	ed thin duced men d l abno on of g iodina ion is somacl geneti e new heter	nerve durin 2) ( eliven rmal rowth usefu lonal cally speci ozygo	ng the demons Carrot s a baby who skin. This is t hormone l variations wh uniform popu es ous plants	4) Both 1 & 2 stration of totipotency 3) Maize suffers from stunted the result to 2) Over secretion 4) Cancer hich are exploited for out	4) Datura <b>growth mental retardation, low</b> n from pars distalis <b>crop improvement</b>
159. 160. 161.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>intelligend</li> <li>1) Hypo set</li> <li>3) Deficie</li> <li>Micropro</li> <li>I. To generation</li> <li>II. To generation</li> <li>III. To generation</li> <li>III.</li></ul>	elinate at proc nt wor ce and ecretio ncy of pagati erate s ltiply nerate oduce are cor	ed thin duced men d l abno on of g iodine ion is somacl geneti e new heter rrect	durin 2) ( eliven rmal rowth wusefu lonal ically specie ozygo 2) 1	ng the demons Carrot rs a baby who skin. This is t hormone l variations wh uniform popules ous plants III & IV are co	<ul> <li>4) Both 1 &amp; 2</li> <li>stration of totipotency <ul> <li>3) Maize</li> </ul> </li> <li>suffers from stunted for the result to <ul> <li>2) Over secretion</li> <li>4) Cancer</li> </ul> </li> <li>bich are exploited for or ulation</li> </ul>	4) Datura growth mental retardation, low n from pars distalis crop improvement rect 4) II & III are correct
159. 160. 161.	<ul> <li>3) Nonmy</li> <li>First plan</li> <li>1) Radish</li> <li>A pregnation</li> <li>intelligend</li> <li>1) Hypo set</li> <li>3) Deficie</li> <li>Micropro</li> <li>I. To gene</li> <li>II. To mu</li> <li>III. To gene</li> <li>IV. To pr</li> <li>1) I &amp; III a</li> <li>An organ</li> </ul>	elinate at prod nt wor ce and ecretio ncy of pagati erate s ltiply nerate oduce are cor ism th	ed thin duced men d l abno on of g iodine ion is geneti e new heter rrect at tra	durin 2) ( eliven rmal rowth usefu lonal ically specie ozygo 2) ] nsfer	ng the demons Carrot rs a baby who skin. This is t hormone l variations wh uniform popu es ous plants III & IV are co the infective	<ul> <li>4) Both 1 &amp; 2</li> <li>stration of totipotency <ul> <li>3) Maize</li> </ul> </li> <li>suffers from stunted for the result to <ul> <li>2) Over secretion</li> <li>4) Cancer</li> </ul> </li> <li>bich are exploited for or ulation</li> </ul>	4) Datura <b>growth mental retardation, low</b> n from pars distalis <b>crop improvement</b>

#### 163. Big holes in Swiss cheese are made by

- 1) A machine
- 2) A bacterium that produces methane gas
- 3) A bacterium producing a large amount of carbondioxide
- 4) A Fungus that release a lot of gases during its metabolic activities

# 164. The given pie diagram represents the proportionate of species of major taxa of vertebrates identify the groups A and B



- 1) A- Reptiles B- Birds
- 2) A- Fish B- Birds
- 3) A- Birds B-Fish
- 4) A- Birds B-Reptiles

#### 165. Bottle Juices are clarified by the use of

1) Lipases2) Pectinases3) Proteases4) 2 & 3

## 166. Which one of the following is not an ectoparasite- Host association?

- 1) Ticks- dog2) Copepods- marine fish
- 3) Pediculus- Human 4) Plasmodium- Man

#### **167.** Path of water movement from soil to the xylem is

- 1) Metaxylem  $\rightarrow$  Protoxylem  $\rightarrow$  Cortex  $\rightarrow$  Soil  $\rightarrow$ Root hair
- 2) Cortex  $\rightarrow$  Root hair  $\rightarrow$  Endodermis  $\rightarrow$  Pericycle  $\rightarrow$  Protoxylem  $\rightarrow$  Metaxylem
- 3) Soil  $\rightarrow$  Root hair  $\rightarrow$  Cortex  $\rightarrow$  Endodermis  $\rightarrow$  Pericycle  $\rightarrow$  Protoxylem  $\rightarrow$  Metaxylem
- 4) Pericycle  $\rightarrow$  Soil  $\rightarrow$  Root hair  $\rightarrow$  Cortex  $\rightarrow$  Endodermis  $\rightarrow$  Protoxylem  $\rightarrow$  Metaxylem

#### 168. In male frog vasa efferentia from testis enter the kidney and open into

1) Wolffian duct2) Mesonephric duct3) Ureter4) Bidders canal

# 169. Energy consuming and energy releasing steps in nitrogen cycle respectively are

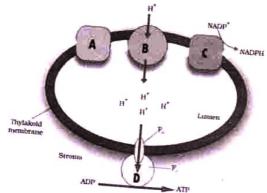
- 1) Nitrification, nitrogen, fixation 2) Ammonification, nitrogen fixation
- 3) Ammonification, dentrification 4) Nitrogen fixation, nitrification
- **170.** Match the following and select the correct set

	interest the rono wing and percet the correct set									
Col	umn –	- I		Column – II						
A. F	Pneum	nonia		I. S	I. Salmonella					
В. Т	ypho	id		II.	II. Entamoeba					
C. (	Comm	on co	ld	III	III. Epidermophyta					
D. Ringworm				IV	IV. Haemophilus influenza					
-					Rhinoviruses					
	Α	В	С	D						
1)	Ι	III	IV	V						
2)	IV	Ι	III	V						
3)	Ι	II	III	IV						
4)	IV	Ι	V	III						

#### SRIGAYATRI EDUCATIONAL INSTITUTIONS - AP&TS 171. Enzymes promote rate of chemical reaction by 1) Lowering energy of activation 2) Increasing energy of activation 3) Maintaing energy of activation 4) Without affecting activation energy but increasing reaction time 172. Verhulst- pearl lozistic growth is described by the equation. 1) $dN = rN\frac{N}{K}$ 2) $\frac{dN}{dt} = rN\frac{N}{K}$ 3) $\frac{dN}{dt} = rN\left(\frac{K-N}{K}\right)$ 4) $\frac{dN}{dt} = kN\left[1-\frac{k}{K}\right]$ 173. Chlorophylls don't absorb this wave length of light 1) Red wave length 2) Green wavelength 3) Blue wavelength 4) Orange wavelength 174. Which of the following statements are incorrect regarding biomagnification of D.D.T I. Spraying of D.D.T in a agricultural fields is carried by run off water into the near by water bodies II. The water bodies may have a very low concentration but it is accumulated at high concentration in fish III. The birds that consumed this fish have no effect though the accumulation of D.D.T is at maximum level in the birds 1) I and II 2) I and III 3) II and III 4) Only III 175. To produce 4 sucrose molecules the number of ATP and NADPH + $H^+$ required in $C_3$ plants is 1) 144 & 96 2) 120 & 48 3) 188, 192 4) 72, 46 176. Which pair of geographical area shows maximum diversity in our country? 1) Sunderbans and Rann of Kutch 2) Easterm Ghats and Western Ghats

- 3) Eastern Himalayas and western Ghats
- 177. From the below figure ATP synthesis through chemiosmotic hypothesis identify ABCD respectively

4) Kerala and Punjab



- 1) Photoystem- I, Photosystem- II, Cytochromes b& f, ATP synthase
- 2) Photosystem- II, Photosystem- I, Cytochromes b&f, ATP synthase
- 3) Photoystem-I, Cytochromes b & f, ATP synthase, Photoystem- II
- 4) Photoystem- II, Cytochromes b& f, Photosystem- I, ATP synthase

178. Which of the following are correctly matched with respect to their taxonomic classification?

- 1) Flying fish, cuttlefish, Silverfish-Pisces
- 2) Centipede, Millipede, Spider, Scorpion-Insecta
- 3) House fly, Butterfly, Tse-tse fly, silverfish-Insecta
- 4) Spiny anteater, Sea urchin, Sea cucumber- Echinodermata
- 179. Ratio of total ATPs produced by substrate level phosphorylation in aerobic respiration where substrate is 2 molecules of G-3-P and number of molecules of  $CO_2$  liberated during Krebs cycle is

1) 1:1	2) 3:2	3) 2:3	4) 1:4	
180. Lack of relaxat	ion between successive	stimuli in sustained mus	cle contraction is know as:	
1) Tonus	2) Spasm	3) Fatigue	4) Tetanus	