$$CH_3$$

1) $CH_3 - C - OCH_2CH_3$ in both cases

2)
$$CH_3$$

 $CH_3 - C = CH_2$ in both cases

$$CH_3 \qquad CH_3 \\ | \qquad | \qquad | \qquad | \\ CH_3 - C - OCH_2CH_3 \quad and \quad CH_3 - C \\ | \qquad CH_3 \qquad CH$$

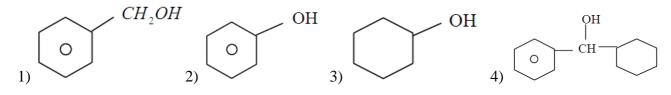
4)
$$CH_3$$
 CH_3 CH_3 CH_3 $CH_3 - C - OCH_2CH_3$ CH_2 CH_3

- 84. Which of the following exhibits linkage isomerism
 - 1) $\left[\text{Co}(\text{NH}_3)_5 \text{ Br} \right] \text{SO}_4$

2) $\left[\text{Co}(\text{NH}_3)_5 \text{NO}_2 \right] \text{C}\ell_2$

3) $\left[\text{Cr}(\text{H}_2\text{O})_{\epsilon} \right] \text{C}\ell_3$

- 4) $\left\lceil \text{Co}\left(\text{NH}_3\right)_6 \right\rceil \left\lceil \text{Cr}\left(\text{CN}\right)_6 \right\rceil$
- Which of the following compounds has the most acidic nature? **85.**



- $CH_3CH_2COOH \xrightarrow{SOCl_2} B \xrightarrow{NH_3} C \xrightarrow{KOH} D$ the structure of **D** is 86.
 - 1) $CH_3CH_2NHCH_3$
 - 2) $CH_3CH_2NH_2$
- 3) $CH_3CH_2CH_2NH_2$ 4) $CH_3CH_2CONH_2$
- **87.** Organic compound A of the molecular formula $C_5H_{10}Cl_2$ is hydrolysed to compound B $C_5H_{10}O$, which gives an oxime with hydroxylamine and yellow ppt with a mixture of iodine and sodium hydroxide. The compound A should be
 - 1) $CH_3CH_2CCl_2CH_2CH_3$

2) $CH_3CH_2CH_2CCl_2CH_3$

3) $CH_3CH_2CH_2CH_2CHCl_2$

- 4) CH₃CH₂CH₂CHClCH₂Cl
- Cyanohydrin of which of the following forms lactic acid 88.
 - 1) CH₃CH₂CHO
- 2) *HCHO*
- 3) *CH*₃*CHO*
- 4) CH_3COCH_3
- Which of the following is more basic than aniline? **89.**
 - 1) p-nitro aniline
- 2) benzyl amine
- 3) Di phenyl amine 4) Tri phenyl amine
- Which of the following will be most stable diazomium salt $RN_2^+X^-$? 90.
 - 1) $C_6H_5N_2^+X^-$
- 2) $CH_3N_2^+X^-$
- 3) $CH_3CH_2N_2^+X^-$ 4) $C_6H_5CH_2N_2^+X^-$

BIOLOGY

- 91. Two organisms belongs to same class but not in the same family belongs to same _____
 - 1) genus
- 2) species
- 3) variety
- 4) order

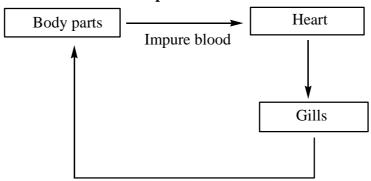
- 92. Starch $\xrightarrow{\text{salivary amylase}} A \cdot A$ is
 - 1) Monosaccharide
- 2) polysaccharides
- 3) Disaccharide
- 4) Amylopectin
- 93. In potato, brinjal, makoi, lion, leopard. How many species, genera and families are there
 - 1) Species-5; Genus-3; Family-2
- 2) Species-4; Genus-2; Family-3
- 3) Species-5; Genus-2; Family-2
- 4) Species-4; Genus-3; Family-3
- 94. The primary dentition in human differs from permanent dentition in not having one of the following type of teeth
 - 1) premolars
- 2) molars
- 3) incisors
- 4) canine
- 95. Which of the following are homosporous pteridophytes
 - I. Selaginella
- II. Lycopodium
- III. Salvinia
- IV. Equisetum

- 1) I & IV only
- 2) II & IV only
- 3) II & III only
- 4) III & IV only
- 96. The blood leaving the lungs has all its hemoglobin oxygenated and gives up oxygen to the tissues because
 - 1) The tissue can absorb CO_2 from oxyhaemoglobin
 - 2) O_2 concentration in tissues is lower and CO_2 concentration is higher as compared to blood
 - 3) O_2 concentration in tissues is higher and CO_2 concentration is lower as compared to blood
 - 4) oxyhaemoglobin undergoes reduction in lungs
- 97. In a 1.8kb long piece of ds-DNA,320 Adenine bases were found. What would be the number of cytosine bases?
 - 1) 580

- 2) 1160
- 3) 320

- 4) 1180
- 98. Two friends are eating together in a dining table one of them suddenly starts coughing while swallowing some food. This coughing would have been due to the improper moment of
 - 1) tongue
- 2) thinking
- 3) epiglottis
- 4) diaphragm

- 99. Tetradynamous condition is found in
 - 1) Ocimum sanctum
- 2) Salvia
- 3) Brassica compestris
- 4) Datura metal
- 100. The given flow of blood circulation is represented as



Pure blood

- 1) Fishes-incomplete double circulation
- 2) Fishes-single circulation
- 3) Amphibians-Incomplete double circulation
- 4) Amphibians-complete single circulation
- 101. The most abundant component of cell after water is
 - 1) Lipid
- 2) protein
- 3) nucleic acids
- 4) Ions
- 102. Which of the following is correct about human heart?
 - 1) The volume of both atria>the volume of both ventricles
 - 2) The volume of both ventricles >the volume of both atria
 - 3) The volume of both atria=the volume of both ventricles
 - 4) The volume of both ventricles <the volume of both atria

- 103. Which of the following kingdom system did not distinguish between the prokaryotes and eukaryotes as well as unicellular and multicellular organisms
 - 1) Whittaker's five kingdom system
- 2) Haeckel's three kingdom system
- 3) Copeland's four kingdom system
- 4) Linnaeus two kingdom system
- 104. The number of nephrons in a kidney is equal to the
 - 1) number of Bowman's capsules
 - 2) sum of Bowman's capsules and glomeruli
 - 3) double the number of Bowman's capsules
- 4) sum of kidneys in the body
- 105. Primary medullary rays are absent in
 - I. Dicot stem
- II. Dicot root
- III. Monocot stem
- IV. Monocot root

1) I,II,III only

Column I

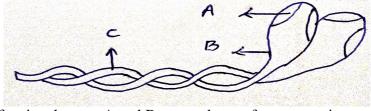
2) I&IV only

Column II

- 3) II,III,IV only
- 4) III,IV only
- 106. Which one of the following correctly explains the functions of a specific part of a human nephron?
 - 1) **Henle's loop**-Most reabsorption of the major substances from the glomerular filtrate
 - 2) **DCT** secretion of water, ions
 - 3) Afferent arteriole-carries the blood away from the glomerulus towards the renal vein
 - 4) **Podocytes**-Create minute space(slit pores) for the filtration of blood into the Bowman's capsule
- 107. Match column-I with column-II,III and select the correct option from the given codes

Columni-1	Column-11	Columni-m	
I. F.W.went	(A) Auxin	(P) fungus	
II. Kurosawa	(B) Cytokinin	(Q) coleoptile of oat s	seedling
III. F.T Addicot	(C) Gibberillic Acid	(R) DNA	
IV. Skoog & millar	(D) Abscisic Acid	(S) stress Hormone	
1) I-AQ	2) I-AQ	3) I-AQ	4) I-AQ
II-BP	II-CP	II-CP	II-CR
III-CR	III-CS	III-DS	III-DS
IV-DS	IV-BR	IV-BR	IV-BP

108. Study the following diagram and identify the correct option



- 1) C is made up of actin where as A and B are made up of tropomyosin
- 2) B and C are made up of tropomyosin
- 3) C has binding sites for ATP and actin
- 4) A and B are made up of heavy meromyosin
- 109. In a cross involving F_1 Hybrid flies, more number of parental type off springs were produced than the recombinant type off springs this indicate
 - 1) Chromosomes failed to separate during meiosis
 - 2) The two genes are linked and present on the same chromosome
 - 3) Both the characters are controlled by more than one gene
 - 4) The two genes are located on two different chromosomes
- 110. Select the correct statement regarding the specific disorder of muscular (or) skeletal system
 - 1) Muscular dystrophy- age related shortening of muscles
 - 2) Osteoporosis-decrease in bone mass and higher chances of fractures with advancing age
 - 3) Myasthenia gravis- Autoimmune disorder which inhibits sliding of myosin filaments.
 - 4) Gout- inflammation of joints due to extra deposition of calcium
- 111. "We two (I & You) need not posses the same nucleotide sequence for synthesis of insulin". This assessment is based on which feature of codon
 - 1) universality
- 2) Ambiguity
- 3) Degeneracy
- 4) Non-Overlapping

			AL INSTITUTION.	
112.		U	•	le in human skeletal system.
	1) condyloid joint	- between occipital co	•	
	2) pivot joint	-between Atlas and od	•	
	3) Hinge joint	- between femur and t		
110	4) Gliding joint	-between carpals and	-	
113.	Which of the following	_	O	teriai
	 It should be able to u It should be structura 			
	3) It should be able to e	•		
	4) It should be able to g	1	Hall Characters	
	+) it should be able to g	cherate its replica		
114.	When a neuron is in r	esting state, ie, not co	nducting any impulse,	the axonal membrane is
	1) Equally permeable to			
	2) Impermeable to both			
	3) Comparatively more		nd low permeable to Na	a ⁺ ions
	4) Comparatively more			
115	Which is not true for v	_	and nearly imperineasis	o to It lons
110.	1) They are smaller than		2) They contain ds-R	NA as genetic material
	3) RNA has low molecu		4) It causes potato spi	_
116		· ·		e is removed from human?
110.	1) balance	2) auditory	3) vision	4) olfaction
117	Which one of the follow	•	,	+) offaction
11/.	1) Somatic hybridizatio		_	
	2) Embriod-Zygotic em		e cens	
	3) micro propagation-in	•	ents in large numbers	
	4) callus-undifferentiate	= =	ants in large numbers	
110	·		mal manner. There have	siaht shildner (2 dayahtana
110.				e eight children (3 daughters e but none of the sons are
	affected. Which of the	0		
	1) sex linked recessive	Tonowing mode of im-	2) sex linked dominer	
	3) autosomal dominent		4) sex limited recessive	
110	The gene that encodes	for RT-protein specif	·	
11).	I) cry IAc	II) cry II Ab	III) cry II AC	IV) cry I Ab
	1) I&IV	2) I& II	3) II&III	4) II&IV
120	Of both normal paren	,	,	<i>'</i>
120.	_		_	
	1) Possible when materi	_		ЮП
	2) Possible only when a			
	3) possible only when for			
101	4) Possible only when n		ur biina	
121.	Biolistics (gene-gun) is		O) / C / C	1 (11
	1) Selecting pathogen v		2) transformation of p	
100	3) constructing chimeric		4) DNA amplification	
122.		wing hormones throu	gh synthesized elsewho	ere is stored and released by
	the master gland?		2)1	
	1) Luteinizing hormone		2) prolactin	
	3) melanocyte stimulati	ng normone	4) antidiuretic hormon	ne

123.	Trichoderma is a effective biocontrol ag	ent for several plant pathogens species of which
	belongs to class A and is also used for prod	uction of Bioactive molecule B. A & B are
	\mathbf{A}	В
	1) Phycomycetes	Cyclosporin-A
	2) Basidiomycetes	statins
	3) Deuteromycetes	cytosporin-A
	4) Ascomycetes	statins
124	•	, feels thirsty and there is no glucose in the urine,
147,	what may be the cause	, reels thirsty and there is no glucose in the urine,
	1) Hypersecretion of posterior lobe of pituitar	v
	2) Hyposecretion of posterior lobe of pituitary	•
	3) Hyposecretion of adrenal gland	
	4) Hypersecretion of thyroid	
125.	Non-N ₂ fixing biofertilizer is	
	1) Anabaena 2) Oscillatoria	3) Aulosira 4) Glomus
126.	Which of these options is correct with rega	rd to statements X and Y?
	Statement X: Some STDs do not show symp	toms in females
	Statement Y: Some STDs in females may rea	main undetected for long time
	1) Statement X and Y are correct	2) Statement X and Y are wrong
	3) Statement X is correct Y is wrong	4) Statement X is wrong Y is correct
127.	Mis-match regarding the phenotypical rati	os of following crosses is
	1) YyRr x yyrr-1:1:1:1(pea)	2) tt x TT-1:1(pea)
	3) yyRR x YYrr-9:3:3:1 (F ₂ progency of pea)	
128.	Which of the following viruses is not transf	_
	1) Hepatitis B virus	2) Human immunodeficiency virus
	3) Chikunguniya virus	4) Ebola virus
129.	Which one of the following is not common	
	1) Presence of Archegonium	2) Embryo
120	3) Antherozoids motility	4) Root system
130.	Which option is correct for the region label	lled as 'a' and 'b' in the given diagram
	/ _@	Multiplication phase
		Muliphication phase
	*	
		Growth phase
	6 6 6	
	7 77 7	Maturation phase
	1) a = Mitosis, b = Primary spermatocyte	2) a = Meiosis, b = Secondary spermatocyte
	3) $a = Mitosis$, $b = Secondary spermatocyte$	4) a = Meiosis, b = Primary spermatocyte
131.	Diplontic life cycle is observed in	
	1) Pteridophytes and many algae	2) Bryophytes and pteridophytes
	3) Gymnosperms and Angiosperms	4) Bryophytes and spermatophytes
132.		normal sight who has no history of color blindness
	in her family. What is the probability of the	_
	1) 100% 2) 50%	3) nil 4) 25%
133.	Dikaryotic phase is observed in	
	1) Phycomycetes and Ascomycetes	2) Phycomycetes and deuteromycetes
	3) Ascomycetes and Basidiomycetes	4) Ascomycetes and deuteromycetes

	SRIGAYATRI EDUCATIONA	L INSTITUTIONS - AP&TS
134.	Mother and father have children with 'O',	, 'A' 'B' and 'AB' blood group, respectively.
	What would be the genotype of both mother as	nd father?
	1) Mother is homozygous for 'A' blood group &	• •
	2) Mother is heterozygous for 'A' blood group &	
	3) Both parents are heterozygous for 'A' and 'B'	y ±
	4) Both parents are homozygous for 'A' and 'B'	blood groups
135.	Identify the mis-match	
100		3) muliathi-ornamental 4) Tulip-ornamental
136.	·	einberg equilibrium recessive and homozygous
	dominant individuals are 30% and 20% respe	
127	,	3) 0.48 4) 0.05
13/.	The fruit of mango differ from that coconut w	-
120	· •	3) Drupe 4) single seeded
130.	Identify the A,B,C and D in this figure	٦
	A	
		_
	_ L	
	C Population density N	
	density iv	
	7 7	
	<u> </u>	٦
	В	
	1) A Notelity B immigration C Mortelity D En	J nigration
	1) A-Natality, B-immigration, C-Mortality, D-En 2) A- immigration, B-emmigration, C- Natality, I	
	3) A- Mortality, B-emmigration, C- Natality, D-	•
	4) A- Mortality, B- Natality, C- emmigration, D-	
139.	Identify the incorrect statement regarding second	_
107.	1) lateral meristems contribute to secondary grow	• •
	2) cork cambium produces cork and secondary co	
	3) spring wood is lighter in color and has lower d	
	4) Bark constitutes wood and periderm	·
140.	World summit on sustainable development wa	s held in
	1) Johannesburg, south Africa 2002	2) Rio De Janerio, 1992
	, , ,	4) Montreal, Canada
141.	In animal cells during cell cycle the centriole d	
	1) G_1 2) G_2	3) S 4) M
142.	As we go higher from species to kingdom, the	number of common characteristic goes on
	1) Increasing 2) decreasing 3	3) remains same 4) none of the above
143.	Root pressure	
	-	2) is driving force for guttation
	, I	4) all the above correct
144.	Which of these are examples of alien species in	
	1) Nile perch introduced in Lake Victoria in east	Africa
	2) African cat fish in Indian River	A) A11 C.1 1
1 4 =	, ·	4) All of the above
145.	Boron is not concerned with	2) (1 1 1 1 1 1 2 2 2 2 4
	· ·	2) uptake and ultilization of Ca^{2+}
	3) pollengrain transfer	4) cell membrane functioning

146.	Matrix (or) ground sul	bstance in connective	tissues are made up of	
	1) thick proteins		2) elastin fibers	
	3) modified polysacchar		4) modified triglyceride	es
147.	Which of the following	statement is true for	C_4 plants	
	1) The first C_4 acid form	ned in the bundle sheat	th cells is OAA	
	2) They undergo photor	espiration		
	3) Maize and sorghum a	are C_4 plants	4) mesophyll cells cont	ain Rubisco enzyme
148.		•		n the nose tip are examples
	of			
	1) Bone	2) ligaments	3) gristle	4) Areolar tissue
149.	Which of the following	is a copper containin	g electron carrier in E.T	Γ . S
	1) complex-I	2) complex-II	3) complex-III	4) complex-IV
150.	$Polyp \rightarrow Asexually \rightarrow N$	$Medusa \rightarrow sexually \rightarrow l$	PolyP	
	The above cycle is show	•		
	1) sea fan	2) sea pen	3) sea fur	4) sea walnuts\
151.	In germinating castor	seed, the R.Q is	-	
	1) one	•	3) less than one	4) zero
152.				mented usually protected
	by a shell made up of o			
150	1) Porifera	2) Echinodermata	*	4) Arthropoda
153.	The function of nucleo	<u> </u>		4) 4 DNIA
151	1) DNA Which of the following	2) m-RNA	3) r-RNA	4) t-RNA
154.		is correct about repr	oduction in hemichorda 2) usually direct develo	
	 Internal fertilization sexes are separate 		4) monoecious organisi	•
155	Choose the correct state	toment regarding Rih	· · · · · · · · · · · · · · · · · · ·	11
155.	1) They are also called s	0		
	2) 70s Ribosomes are pr	_		
	<u>-</u>	<u> </u>	tion of Ribosomal comple	x
	4) They play major role		aon of thoosomal comple	
156.	Match the following	v. ws v. 1p v. s		
	Structure		Function	
	A. Wolffian duct		1) olfaction	
	B. Jacobson's organs		2) Respiration	
	C. Intercostal muscles		3) carries sperms	
	D. vascular cloacal wall		4) exchange of gases	
	1) A-4, B-3, C-1, D-2		2) A-1, B-4, C-2, D-3	
	3) A-3, B-1 C-2, D-4		4) A-2, B-3, C-4, D-1	
157.	In ficus (peepal) pollin			
	1) air	2) water	3) insects	4) birds
158.	The type of vertebrae i		•	A
4 = 0	1) Amphiplatyan	2) Procoelous	3) Amphicoelous	4) Heterocoelous
159.	Polysiphonous condition		2) 1:	4) 1
170	1) cucurbita	2) salvia	3) china rose	4) solanum
100.	_		by the member of class-	cnonarientnyes
	1) caudal fin is heteroce			
	2) Gills without operulu		000100	
	3) the skin is tough cont4) all the above	aming minute placoid	scales	
161		na nlant has 26 ahrar	nocomes Than the number	ber of chromosomes would
101.	be	ng piant nas 20 cmon	rosomes. Then the hulli	oci vi chivillusvilles wuulu
	1) 13 in gametes	2) 26 in gametes	3) 52 in embryo	4) 13 in stem cells
	i, io iii gainetes	-, -0 III Guillotto	2, 22 m omoryo	., 15 m stem cens

162.			ed by the germinal epitl	9
	1) Cells of Sertoli		3) Spermatogonium	4) Spermatids
163.	In which of the follow	ing organisms m-RNA	has introns	
	1) Nostoc	2) Rhizobium	3) Mycoplasma	4) Chlamydomonas
164.	Ranikhet disease is fo	ound in	, •	•
	1) Honey bee	2) Hens	3) Fishes	4) Sericulture
165	The plant propagated	/	3) I islies	i) Bellealtare
105.	1) Sweet potato	2) Jasmine	3) Allium	4) All of the these
166	,	· · ·	,	,
100.		i nad been used extens	sively used, the population	on of birds declined
	significantly because			
	· ·	ere feeding exclusively o	n birds	
	2) many of the birds eg	ggs laid, did not hatch		
	3) birds stopped laying	geggs		
	4) Earthworms in the a	rea got eradicated		
167.	How many structural	genes are present in tl	ne lac operon of E.coli?	
	1) 4	2) 3	3) 5	4) 6
168.		ate of production of or	ganic matter during pho	otosynthesis is termed as
	1) Net productivity	F	2) Net primary product	
	3) Gross primary produ	activity	4) Secondary productiv	•
160	Caulogenesis is due to	<u> </u>	4) Secondary productiv	ity
109.	<u> </u>		2) sibbanallin	
	1) more auxin than cyt		2) gibberellin	
	3) more cytokinin than		4) abscisic acid	
170.				verage natality was 250,
	average mortality 240), immigration 25 and ϵ	emigration 30; The net i	ncrease in population is
	1) 15	2) 05	3) zero	4) 275
171.	Thermocycler is used	for		
	1) gene transfer		3) Gene cloning	4) Gene isolation
172.	, 0	· •	•	all its water requirements
			ds for water conservatio	
	• •	_		
	I) Ability to dilute its	urine	II) Ability to concentr	ale iis iirine
	I) Ability to dilute its		II) Ability to concentr	
	III) Internal fat oxida	ation	IV) Increasing food in	take
172	III) Internal fat oxida 1) All are true	ation 2) All are false	IV) Increasing food in 3) More than 2 are true	
173.	III) Internal fat oxida 1) All are true Meloidogyne incognit	ation 2) All are false tia causes a great reduc	IV) Increasing food in 3) More than 2 are true ction in yield of	4) More than one is true
	III) Internal fat oxida 1) All are true Meloidogyne incognit 1) Bean	ation 2) All are false tia causes a great reduce 2) Tobacco	IV) Increasing food in 3) More than 2 are true etion in yield of 3) Rice	4) More than one is true
	III) Internal fat oxida 1) All are true Meloidogyne incognit 1) Bean Which one of the follo	ation 2) All are false tia causes a great reduce 2) Tobacco owing is not a function	IV) Increasing food in 3) More than 2 are true ction in yield of 3) Rice of an ecosystem	4) More than one is true 4) Cotton
174.	III) Internal fat oxida 1) All are true Meloidogyne incognit 1) Bean Which one of the follo 1) productivity	ation 2) All are false tia causes a great reduce 2) Tobacco owing is not a function 2) stratification	IV) Increasing food in 3) More than 2 are true etion in yield of 3) Rice	4) More than one is true
174.	III) Internal fat oxida 1) All are true Meloidogyne incognit 1) Bean Which one of the follo 1) productivity Incorrect match of the	ation 2) All are false tia causes a great reduce 2) Tobacco owing is not a function 2) stratification e following	IV) Increasing food in 3) More than 2 are true ction in yield of 3) Rice of an ecosystem 3) energy flow	4) More than one is true 4) Cotton 4) decomposition
174.	III) Internal fat oxida 1) All are true Meloidogyne incognit 1) Bean Which one of the follo 1) productivity Incorrect match of th 1) Coleopterons-beetle	ation 2) All are false tia causes a great reduce 2) Tobacco owing is not a function 2) stratification e following	IV) Increasing food in 3) More than 2 are true ction in yield of 3) Rice of an ecosystem	4) More than one is true 4) Cotton 4) decomposition
174.	III) Internal fat oxida 1) All are true Meloidogyne incognit 1) Bean Which one of the follo 1) productivity Incorrect match of the	ation 2) All are false tia causes a great reduce 2) Tobacco owing is not a function 2) stratification e following	IV) Increasing food in 3) More than 2 are true ction in yield of 3) Rice of an ecosystem 3) energy flow	4) More than one is true 4) Cotton 4) decomposition uitos
174. 175.	III) Internal fat oxida 1) All are true Meloidogyne incognit 1) Bean Which one of the follo 1) productivity Incorrect match of th 1) Coleopterons-beetle 3) Dipterans-flies	ation 2) All are false tia causes a great reduce 2) Tobacco owing is not a function 2) stratification te following	IV) Increasing food in 3) More than 2 are true etion in yield of 3) Rice of an ecosystem 3) energy flow 2) Lepidopterans-mosq 4) Lepidopterans-army	4) More than one is true 4) Cotton 4) decomposition uitos worm
174. 175.	III) Internal fat oxida 1) All are true Meloidogyne incognit 1) Bean Which one of the follo 1) productivity Incorrect match of th 1) Coleopterons-beetle 3) Dipterans-flies Stages of Plasmodium	ation 2) All are false tia causes a great reduce 2) Tobacco owing is not a function 2) stratification te following s a vivax which are small	IV) Increasing food in 3) More than 2 are true etion in yield of 3) Rice of an ecosystem 3) energy flow 2) Lepidopterans-mosq 4) Lepidopterans-army	4) More than one is true 4) Cotton 4) decomposition uitos
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