BIOLOGY	(New	Scheme)	
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Time: 20 Minutes

*(INTER PART - I) 318 - (III)

OBJECTIVE

Code: 6465

NOTE: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more

Paper - I

Marks: 17

		p	circles will result in zero mark in that questi paper and leave others blank.	on. Attempt as man	y questions as given in	objective type question
1.	1 -	•	Casparian strips are present in			
			(A) epidermis (B) endode	ermis (C)	cortex	(D) pericycle
	2 -			, ,		(-)
			(A) osmosis (B) diffusi		active transport	(D) facilitated diffusion
	3 -		pH gradient drives the formation of A		•	
			(A) respiration (B) chemi		calvin cycle	(D) conduction
	4 -					
E.			(A) nematoda (B) echino	odermata (C)	mollusca	(D) annelida
	5 -	-	Histoplasmosis is a		/	
			(A) heart disease (B) kidner	disease (C)	lungs disease	(D) liver disease
	6 -		Study of social behaviour of human is	called	A	
			(A) anatomy (B) social		paleontology	(D) physiology
	7 -		Poisons like cyanides, antibiotics and			(z) physiciegy
			(A) enzymes (B) co-enz		inhibitors	(D) cofactors
	8 -	-	Orders include related			
			(A) families (B) genera	(C).	species	(D) classes
	9 .	-	Entamoeba histolytica causes amoebi	c Add	•	
			(A) cholera (B) fever	(C)	dysentery	(D) migraine
	10 -	-	One complete heart cycle lasts for about	out /		
			(A) 0.2 sec (B) 0.5 sec	(C)	0.8 sec	(D) 1.0 sec
	11 -	-	In earthworm exchange of gases main	ly takes place thro	ough	
			(A) gills (B) lungs	(C)	skin	(D) ostia
	12	-	Number of chloroplasts in each meso	phyll cell is about		
			(A) 70 - 100 (B) 10 - 2	00 (C)	20 - 100	(D) $20 - 200$
	13	-	Which of the following is a motile co	elenterate?		
			(A) hydra (B) obelia	colony (C)	jelly fish	(D) corals
14 -			Double fertilization is a characteristic	feature of		
			(A) gymnosperms (B) angio	sperms (C)	bryophytes	(D) ferns
	15	-	Conjugation in bacteria is promoted by	у		
			(A) flagella (B) pili	(C)	cilia	(D) gametes
	16	-	Group of ribosomes attached to mRN	A molecule is		
			(A) lysosome (B) polyso	ome (C)	endosome	(D) peroxisome
	17	-	Most abundant carbohydrate in nature	e is		
			(A) starch (B) glycog	gen (C)	cellulose	(D) agar
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PIOLOGY (New Scheme)

(INTER PART - I) 318

Paper - I

Time: 2:40 Hours

SUBJECTIVE

Marks: 68

 $(2 \times 8 = 16)$

Note: Section I is compulsory. Attempt any three (3) questions from Section II.

(SECTION - I)

2. Write short answers to any EIGHT questions.

i - What are bioelements?

- ii Define molecular biology.
- iii What is binomial nomenclature?
- iv Give lock and key model of enzyme.
- v What is the role of enzyme concentration on the rate of enzyme action?
- vi Define competitive inhibitors.
- vii Define metamorphosis and nymph.
- viii What is haemocyanin?
- x Give two beneficial roles of mollusca.
 - x What are tetrapoda?
 - xi What are hyphae and mycelium?
- xii Differentiate between conidia and conidiophore.

3. Write short answers to any EIGHT questions.

 $(2 \times 8 = 16)$

- i What are plasmids?
- ii What are zooflagellates? Give one example.
- iii Define thallus.
- iv Why euglenoids have special evolutionary significance?
- v Why diatoms are important in aquatic food chains?
- vi Define kingdom plantae.
- vii What is homospory? Give one example.
- What is a porphyrin ring of a chlorophyll molecule?
- 1x What are cytochromes?
- x What is a nutrient?
- xi What is pyrosis?
- xii Define villi.

4. Write short answers to any SIX questions.

 $(2 \times 6 = 12)$

- i Differentiate between microtubules and microfilaments.
- ii What are Golgi apparatus? Give its functions.
- iii Define monosacharides with examples.
- iv What are blood platelets? Give their main function.
- v Where the human's heart is located in the body? Give names of layers that surround the heart.
- vi What are Guard cells? Give their functions.
- vii What do you mean by pulmonary respiration and cutaneous respiration?
- viii What are the symptoms of emphysema?
 - ix What are parabronchi?

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(SECTION - II)

5.	(a)) Describe role of biology in protection and conservation of environment.	
		What is cardiac cycle? Describe its phases.	$\begin{array}{c} (4) \\ (4) \end{array}$
6.	(a)	What a note on acylglycerols including fatty acids?	(4)
	(b)	Explain and sketch the life cycle of rhizopus.	(4)
7.	(a)	Write note on cytoskeleton.	(4)
	(b)	Write note on digestion in stomach of man.	(4)
8.	(a)	What are retroviruses? Discuss.	(4)
	(b)	What is oxidative phosphorylation? Discuss.	(4)
9.	(a)	Write down the different taxonomic groups of bacteria on the basis of pattern of flagella.	(4)
		Write down the significance of alternation of generations.	
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