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R	oll No(To be filled	l in by candidate)	(For all ses	ssions)	Paper Code	6	4	6	T
B	Biology (Objective Typ	e)	Rwp.	21					تا
	me: 20 Minutes					N	(ark	is: ]	17
NO	TE: Write answers to the qu	estions on the o	bjective answer she	et provided. Fo	our possible ar	swers			
	A,B,C and D to each que								
	circle A,B,C or D given in						-		
1.1	. Plants having foreign DNA i								
	(A) Transformation	(B) Transger	nic (C)	Transgender	(D)	Trans	latio	n	
2.	Heterogenous group of com	pounds related	to fatty acids are:						
	(A) Nucleic acids	(B) Protein	(C)	Lipids	(D)	Carbo	hydr	ates	š
3.	Which inhibitors have struct	ural resembland	e with substances?						
	(A) Irreversible	(B) Competit	tive (C)	non competiti	ve (D)	Co-er	ızym	<b>=</b>	
4.	Infoldings of inner membran	e of mitochondr	ria are called:						
	(A) Cristae	(B) Cisternae	e (C)	F <sub>1</sub> particals	(D)	SER			
5.	Enzyme released from the ta	ail of bacterioph	age which dissolves	cell wall:					
	(A) Lipase	(B) Pepsin	(C)	amylase	(D)	Lysoz	yme		
6.	Reserve food material in cyr	nobacteria is:							
	(A) Glycogen	(B) Starch	(C)	Lipids	(D)	Protei	n		
7.	Feeding stage of slime mold	s is called:							
	(A) Plasmodesmata	(B) Plasmod	ium (C)	Plasmolysis	(D)	Plasm	а		
8.	Asexual reproduction in pen	icillium takes pla	ace by:						
	(A) Spores	(B) Budding	(C)	Conidia	(D)	Fragm	enta	tion	
9.	Integumented, indehiscent m	egasporangium	is called:						
	(A) Ovary	(B) Ovule		Megaspore	(D) i	micros	pore		
10.	Larva produced during the li	fe cycle of anne	lids, is:						
	(A) Trochophore	(B) Bipinaria		Tad pole	(D) I	Brachi	olaria	3	
11.	A blue coloured respiratory p	pigment present	in molluscus is:						
	(A) Haemoglobin	(B) Haemocy	ranin (C)	Myoglobin	( <b>D</b> ) F	hyco	erthri	n	
12.	Second phase of calvin cycle	e is:			×				
	(A) Carbon fixation			Reduction					
	(C) Regeneration of CO <sub>2</sub> a		(D)	Glycolysis					
13.	Chemical formula of chloropl	-							
	(A) C <sub>54</sub> H <sub>72</sub> O <sub>5</sub> N <sub>4</sub> Mg	( <b>B</b> ) C <sub>54</sub> H <sub>70</sub> O <sub>4</sub> I	N <sub>5</sub> Mg (C)	C <sub>55</sub> H <sub>72</sub> O <sub>5</sub> N <sub>4</sub> Mg	(D) C	C <sub>55</sub> H <sub>70</sub>	O <sub>6</sub> N <sub>4</sub> i	Mg	
14.	Botulism is caused by:		-						
	(A) Salmonella	8		Campylobacte					
42	(C) Pseudomonas	l an flant of abou		Clostridium bo	lulinum				
15.	A sheet of muscles which ac		-	Intercental	olon (D)				
16	(A) Pleura Starch Sugar hypothesis was	(B) diaphragn	(C)	Intercostal mus	scles (D) L	ungs			
10.	(A) H.Van Mohl	(B) Ernst Mun	nch (C) i	Ernst Hackel	/D) I	oiue D	act	-0	
17	Attraction among water mole					oius P	asiul	C	
	action among trator more			or regerier, 15.					

(C) Adhesion 825-11-A-\$ — R

(B) Cohesion

(A) Tension

(D) Transpiration

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Roll	VO(to be filled in by the candidate)	
	3 - in cumutante)	

Inter (Part-I)-A-2021 (For all sessions)

## Biology (Essay Type)

Time: 2:40 Hours

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1 ime: 2:40 Hours	
Section - I  2. Write short answers of any eight parts from the continuous section - I	Total Mar
2. Write short answers of any eight parts from the following.  i. What are enzymes?give one example.  iii. Define irreversible inhibitors.  v. Define lichens and give one example.  vii. Define kingdom Animalia.  ix. What are prototheria?Give one example.  xi. What is Bioenergetics?  3. Write short answers of any eight parts from the following.  i. Differentiate between deductive and inductive reasoning with examples.  iii. Give three basic components of human circulatory system.  iii. Give importance of mitochondria.  viii. How brown algae differ from red algae?  ix. Write a note on euglenoids.  viii. Write down two functions of Golgi components of human circulatory system.  iii. Give four functions of blood.  4. Write short answers of any six parts from the following.  i. Which the answers of any six parts from the following.  ii. What do you know about water molds?  viii. Write down two functions of Golgi components of the following.  iii. How Venus flytrap cathes insect?  viii. What are Bacilli?Give their types.  iv. Give structure and position of lungs in chell of the following of the following of gaseous exchange viii. Write roles of ventilation and capillary network in respiratory surface.	e in poriferans? body wall of Annelids: d fermentation. 2x8=16  elex. o of land plants? gaphyll leaves. 2x6=12
ix. What is meant by absorption and assimilation of food?	
NOTE: Answer any three questions from the following.  5. (a) Discuss how the science of Biology is belong months.	8x3=24
<ul> <li>5. (a) Discuss how the science of Biology is helping mankind in different ways.</li> <li>(b) Discuss the composition of blood Plasma.</li> <li>6. (a) What are proteins? Describe primary structure of proteins.</li> <li>(b) Describe different methods of asexual reproduction in fungi.</li> <li>7. (a) Write a note on nutrition in bacteria. (b) Write in detail the life cycle of Angiospermic plant.</li> <li>8. (a) Describe any four viral diseases. (b) Write a note on noncyclic phosphorylation with diagram.</li> <li>9. (a) Describe the standard of Biology is helping mankind in different ways.</li> </ul>	4 4 4 4 4+4 4+4
9. (a) Describe the structure and function of Golgi apparatus.  (b) Give an account of nutrition in insectivores plants.	4