

Paper Code Number: 2461		2023 (1 st -A) INTERMEDIATE PART-I (11 th Class)		Roll No: _____	
BIOLOGY PAPER-I GROUP-I MTN-11-1-23					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
Q.No.1		You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.			
S.#	QUESTIONS	A	B	C	D
1	A large regional community primarily determined by climate is:	Biomass	Biosphere	Biome	None of these
2	Total number of amino acids in insulin is:	50	51	40	41
3	Which does structure act as a bridge between enzyme and its substrate?	Co-factor	Binding site	Apoenzyme	Inhibitor
4	The protein present in microtubule is:	Actin	Myosin	Tropomyosin	Tubulin
5	Pig could be the source of infection of hepatitis:	A	B	C	E
6	Important vector in a modern genetic engineering technique is:	Plasmid	Nucleoid	Ribosome	Mesosome
7	Based on molecular data, euglenoids are thought to be closely related to:	Brown algae	Diatoms	Zooflagellates	Green algae
8	Cell wall of Fungi is made up of:	Pectin	Murein	Cellulose	Chitin
9	A flower is a modified:	Root	Shoot	Leaf	Stem
10	Closed circulatory system first time appeared in:	Nematoda	Platyhelminthes	Annelida	Arthropoda
11	Nematocysts are the characteristic of phylum:	Annelida	Coelentrata	Nematoda	Platyhelminthes
12	Which of the following is related to phytol?	$C_{20}H_{39}$	$C_{39}H_{20}$	$C_{22}H_{40}$	$C_{40}H_{22}$
13	During Calvin Cycle, the carbon is fixed and reduced resulting in the synthesis of:	Fat	Protein	Sugar	Enzyme
14	Amoeba moves and obtains food by means of:	Cilia	Pseudopodia	Flagella	Tentacles
15	Breakdown of alveoli of lungs is called:	Asthma	Emphysema	Tuberculosis	Lung cancer
16	Which is not an example of granulocyte?	Basophils	Eosinophils	Lymphocytes	Neutrophils
17	Uncontrolled production of white blood cells result in:	Asthma	Thalassemia	Odema	Leucaemia

INTERMEDIATE PART-I (11 th Class)		2023 (1 st -A)	Roll No: _____
BIOLOGY PAPER-I GROUP-I		SUBJECTIVE	MAXIMUM MARKS: 68
TIME ALLOWED: 2.40 Hours		NOTE: Write same question number and its parts number on answer book, as given in the question paper.	
SECTION-I		MTN-11-1-23	
2. Attempt any eight parts.		8 × 2 = 16	
(i)	What are Conjugated Molecules? Give examples.		
(ii)	Differentiate between Competitive and Non-competitive inhibitors.		
(iii)	What are Holoenzymes?		
(iv)	Define Enzyme and Substrate.		
(v)	What is a Hypha? What is the advantage of having incomplete septa?		
(vi)	Differentiate between Ascospores and Ascus.		
(vii)	What is Spongocoel?		
(viii)	Give two important features of Mammals.		
(ix)	How insects are beneficial to man?		
(x)	What is Syrinx?		
(xi)	Differentiate between Grana and Stroma.		
(xii)	What do you know about Photosystems?		8 × 2 = 16
3. Attempt any eight parts.			
(i)	How did industrialization destroy our environment?		
(ii)	How did Biology helped mankind in better food production?		
(iii)	Give three functions of SER.		
(iv)	Differentiate between Microtubules and Microfilaments.		
(v)	What do you know about Amoebae?		
(vi)	What is Thallus?		
(vii)	Write the ecological importance of Dinoflagellates.		
(viii)	What is Chlorella? Give its importance.		
(ix)	Write the names of two plants belonging to family Poaceae.		
(x)	Define Seed.		
(xi)	What is Symplast pathway?		
(xii)	What are Isobilateral leaves?		6 × 2 = 12
4. Attempt any six parts.			
(i)	Describe term Provirus. Give one example.		
(ii)	Give structure of virion of HIV.		
(iii)	Write composition of Saliva.		
(iv)	Discuss Ulcer.		
(v)	Describe role of Large intestine.		
(vi)	What is Lung cancer?		
(vii)	How does partial pressure of O ₂ effect formation and disassociation of oxyhaemoglobin?		
(viii)	Argue that animals having diving reflex have special body features.		
(ix)	Why it is necessary to have respiratory surface?		
SECTION-II		3 × 8 = 24	
NOTE: Attempt any three questions.			
5.(a)	How Drug treatment/genetherapy is used for disease control?		4
(b)	What do you know about Cohesion Tension Theory?		4
6.(a)	Describe characteristics of Monosaccharides.		4
(b)	Explain why did fungi separate from plant kingdom.		4
7.(a)	Describe the nutrition in Bacteria.		4
(b)	Explain the life cycle of angiospermic plant. (Only description).		4
8.(a)	How have we moved from two to five kingdom system of classification?		4
(b)	Explain the phenomenon of non-cyclic phosphorylation.		4
9.(a)	Elaborate the structure and function of mitochondria.		4
(b)	Write a note on digestion in planaria.		4