

Paper Code Number: 2464		2023 (1 st -A) INTERMEDIATE PART-I (11 th Class)		Roll No: _____	
BIOLOGY PAPER-I GROUP-II MTN-11-2-23					
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	Reindeer moss is a/an:	Lichens	Algae	Fungi	Bryophyte
2	When egg and male gamete in angiosperm fuse, they form:	Zygospore	Ascospore	Oosphere	Oospore
3	The beginning of swallowing action in man is:	Voluntary	Involuntary	Automatic	Reflex action
4	Air entering nasal cavity is:	Filtered	Moistened	Warmed	All of these
5	Phytol is attached to:	2 pyrrole rings	3 pyrrole rings	Only one of pyrrole ring	4 pyrrole rings
6	Which of the following do not take part in respiratory chain?	Coenzyme	Cytochrome	Molecular oxygen	Plastocyanin
7	Circular muscles are absent while longitudinal muscles are present in:	Platyhelminthes	Flatworm	Roundworm	Cnidarian
8	Average life span of RBCs is:	4 months	One year	6 years	Whole life
9	A foreign substance often a protein which stimulates formation of an antibody is:	B-Lymphocytes	T. Lymphocytes	Antigen	Serum
10	Process of shedding of exoskeleton in arthropods is called:	Excretion	Ecdysis	Lysis	Splitting
11	Cloning could not be used to make:	Multiple copies of desired organism	Used to produce genetically identical cattle	Commercial production of valuable animals	In research
12	All of following have chains of glucose except:	Chitin	Glycogen	Cellulose	Starch
13	Coenzyme is related to:	Proteins	Fats	Vitamins	Lipids
14	Single membrane bound organelle is:	Chloroplast	Mitochondria	Nucleus	Lysosomes
15	Which part of virus is produced in multiple copies inside host cells?	Virus genome	Capsid	Envelop	All of these
16	Structure involved in reclamation of alkaline soils are:	Akinetes	Heterocysts	Cysts	Hormogonia
17	One of the following represents protozoans:	Dinoflagellates	Diatoms	Apicomplexans	None of these

INTERMEDIATE PART-I (11 th Class)		2023 (1 st -A)	Roll No:
BIOLOGY PAPER-I GROUP-II		MTN-11-2-23	
TIME ALLOWED: 2.40 Hours		SUBJECTIVE	MAXIMUM MARKS: 68
NOTE: Write same question number and its parts number on answer book, as given in the question paper.			
SECTION-I			
2. Attempt any eight parts.			8 × 2 = 16
(i)	Draw the complete structure of ATP.		
(ii)	Why some enzymes are manufactured in inactive form?		
(iii)	Why some enzymes need a cofactor?		
(iv)	Define inhibitors with examples.		
(v)	Write down names of four animal diseases caused by Fungi.		
(vi)	Define parasexuality and give its importance.		
(vii)	Differentiate between Polyps and Medusae.		
(viii)	Write down four harmful insects name and their relevant diseases.		
(ix)	Why Reptiles are different from Amphibians?		
(x)	Enlist Reptile like characters of Archaeopteryx.		
(xi)	What is compensation point? When it occurs?		
(xii)	Define carotenoids and give their importance.		
3. Attempt any eight parts.			8 × 2 = 16
(i)	Differentiate between Deductive and Inductive hypothesis.		
(ii)	What is Hydroponic Culture Technique? Give use of this technique.		
(iii)	How Glyoxysomes differ from Peroxisomes.		
(iv)	What are storage diseases? Name two storage diseases in man.		
(v)	Give importance of Chlorella.		
(vi)	For what study plasmodial slime mold used as model organism?		
(vii)	Write down ecological importance of Dinoflagellates.		
(viii)	Green algae are considered ancestral organism of green land plants why?		
(ix)	Why are Bryophytes called Amphibians plants?		
(x)	Differentiate between Monocot and Dicot plants.		
(xi)	What are essential and non-essential parts of flower?		
(xii)	What is Cardiac Cycle?		
4. Attempt any six parts.			6 × 2 = 12
(i)	Write the botanical names for amaranth and tomato.		
(ii)	Differentiate between lag phase and log phase.		
(iii)	Explain Scraping type of feeding.		
(iv)	What is the role of nematocysts in the life of coelenterates?		
(v)	How peristalsis is different from antiperistalsis?		
(vi)	How does breathing differ from respiration?		
(vii)	Explain briefly Asthma.		
(viii)	How much CO ₂ is present in venous and arterial blood.		
(ix)	Lung cancer is more frequent in smokers. Comments your own.		
SECTION-II			
NOTE: Attempt any three questions.			3 × 8 = 24
5.(a)	Define Cloning. What is its mechanism and products?		1 + 3 = 4
(b)	Why transpiration is considered as a necessary evil?		4
6.(a)	Describe functions of proteins.		4
(b)	Discuss different methods of asexual reproduction in fungi.		4
7.(a)	Describe the classification of bacteria on the basis of flagella.		4
(b)	Define alternation of generation. Also describe its significance.		4
8.(a)	What is binomial nomenclature, give its importance.		4
(b)	Discuss role of carbon dioxide as a photosynthetic reactant.		4
9.(a)	Discuss structure and function of ribosomes.		4
(b)	Give role of oral cavity in digestion.		4