



|                |                    |                                        |                            |
|----------------|--------------------|----------------------------------------|----------------------------|
| <b>Biology</b> | <b>(A)</b>         | <b>L.K.No. 1013</b>                    | <b>Paper Code No. 6461</b> |
| Paper I        | ( Objective Type ) | <b>Inter ( 1st - A - Exam - 2023 )</b> |                            |
| Time :         | 20 Minutes         | <b>Inter ( Part - I )</b>              |                            |
| Marks :        | 17                 | Session (2020 - 22) to (2022 - 24)     |                            |

Note : Four possible choices A, B, C, D to each question are given. Which choice is correct fill that circle in front of that Question No. Use Marker or Pen to fill the circles. Cutting or filling two or more circles will result in Zero Mark in that Question.

|        |                                                                                                                                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------|
| Q.No.1 | Cretaceous, Jurassic and Triassic periods belonged to era :                                                                      |
| (1)    | (A) Palaeozoic (B) Mesozoic (C) Cenozoic (D) Proterozoic                                                                         |
| (2)    | The specific gravity of Fat is : (A) 0.8 (B) 0.6 (C) 0.4 (D) 0.1                                                                 |
| (3)    | Reversible Inhibitors forms Weak Linkage with the :<br>(A) Reactant (B) Product (C) Enzyme (D) Substrate                         |
| (4)    | Living Contents of the cell is collectively called :<br>(A) Cytoplasm (B) Nucleoplasm (C) Cellsap (D) Protoplasm                 |
| (5)    | Family include related : (A) Genera (B) Individuals (C) Order (D) Species                                                        |
| (6)    | The First Scientist to observe Microbes is :<br>(A) Koch (B) Leeuwenhoek (C) Brown (D) Pasteur                                   |
| (7)    | The feeding stage of a Slime Mold is called :<br>(A) Mycellium (B) Rhizopus (C) Plasmodium (D) Penecillium                       |
| (8)    | Yeast are Unicellular : (A) Bacteria (B) Algae (C) Protozoan (D) Fungi                                                           |
| (9)    | The earliest group of Vascular Plants is :<br>(A) Psilopsida (B) Pteropsida (C) Lycopsida (D) Sphenopsida                        |
| (10)   | Malpighian Tubules are present in :<br>(A) Annelids (B) Molluscs (C) Protozoa (D) Arthropods                                     |
| (11)   | Mammals become dominant in the : (A) Mesozoic (B) Cenozoic (C) Devonian (D) Silurian                                             |
| (12)   | O <sub>2</sub> released during Photosynthesis comes from : (A) CO <sub>2</sub> (B) NO <sub>2</sub> (C) Water (D) SO <sub>2</sub> |
| (13)   | The dark reaction occurs in : (A) Stroma (B) Cytoplasm (C) Nucleus (D) Cell Membrane                                             |
| (14)   | pH of fresh Saliva is : (A) 7 (B) 8 (C) 9 (D) 10                                                                                 |
| (15)   | Number of Air Sacs in bird is : (A) 6 (B) 7 (C) 9 (D) 8                                                                          |
| (16)   | Tonoplast is the Membrane of : (A) Nucleus (B) Mitochondria (C) Chloroplast (D) Vacuole                                          |
| (17)   | % of Plasma in the blood is : (A) 45 % (B) 50 % (C) 55 % (D) 60 %                                                                |
|        |                                                                                                                                  |

B



|                      |                               |                   |                                    |
|----------------------|-------------------------------|-------------------|------------------------------------|
| Roll No.             | 1013 - 30000                  | Inter (Part - I)  | Session (2020 - 22) to (2022 - 24) |
| Biology (Subjective) | Inter (1st - A - Exam - 2023) | Time 2 : 40 Hours | Marks : 68                         |

Note: It is compulsory to attempt any (8 - 8) Parts each from Q.No. 2, Q.No.3 and attempt any (6) Parts from Q.No.4. Attempt any (3) Questions from Part - II. Write same Question No. and its Part No. as given in the Question Paper.

Make Diagram where necessary.

Part - I

Bwp-11-23

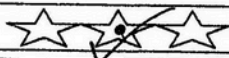
22 x 2 = 44

- Q.No.2 (i) What are Ester Compounds? Give example.  
(ii) How Irreversible Inhibitors inhibit Enzyme Activities?  
(iii) Define Optimum pH. Give two examples.  
(iv) Differentiate between Prosthetic Group and Coenzyme.  
(v) What is Ergotism? How it is caused?  
(vi) How Fungi Resemble with animals?  
(vii) What are Hermaphrodites? Give two examples.  
(viii) What is Spiral and Determinate Cleavage?  
(ix) What is Polymorphism? Give example.  
(x) Why Echinoderms are placed close to Chordates?  
(xi) What are Photosystems? Differentiate between Photosystem I and Photosystem II.  
(xii) What is Alcoholic Fermentation?
- Q.No.3 (i) How does Population differ from Community?  
(ii) What is Integrated Disease Management?  
(iii) Write any two salient features of Cell Theory.  
(iv) Explain Fluid Mosaic Model of Plasma Membrane.  
(v) Differentiate between Foraminiferans and Actinopods.  
(vi) What is the Ecological importance of Dinoflagellates?  
(vii) Why Kelps are so important?  
(viii) Justify that Green Algae are ancestors of plants.  
(ix) Explain kPa.  
(x) Define Stroke or Cerebral Infarction.  
(xi) What is Protonema?  
(xii) Write Botanical Names of any two plants belong to Pea Family.
- Q.No.4 (i) What do you know about Capsule of Bacteria?  
(ii) Write a short note on Herpes Simplex.  
(iii) How the plants are Surviving in the Nitrogen Deficient Soil?  
(iv) Why Anorexia Nervosa is so dangerous?  
(v) What is the cause and consequences of Obesity?  
(vi) How smoking effects humans?  
(vii) How the composition of Arterial and Venous blood differ?  
(viii) What is the role of Parabronchi in Birds?  
(ix) What happens when Glycine enter into Mitochondria?

Part - II

(3 x 8 = 24)

- Q.No.5 (a) Discuss the role of Biology in protection and conservation of Environment. (4)  
(b) Describe the Categories of Solutes present in blood plasma in detail. (4)
- Q.No.6 (a) Explain the importance of Carbon. (4)  
(b) Explain the Life Cycle of Ustilago Tritici with the help of Diagram. (4)
- Q.No.7 (a) Discuss Nutrition in Bacteria. (4)  
(b) Define Alternation of Generation. Give its importance. (4)
- Q.No.8 (a) Give Lytic Cycle of Bacteriophage. (4)  
(b) Describe role of light in Photosynthesis. (4)
- Q.No.9 (a) How does Digestion occur in Hydra? (4)  
(b) Describe structure and function of Mitochondria. (4)



B