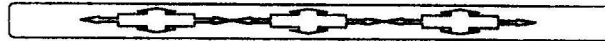


B

|         |                    |                                   |                     |
|---------|--------------------|-----------------------------------|---------------------|
| Biology | (D)                | L.K.No. 1111                      | Paper Code No. 6467 |
| Paper I | ( Objective Type ) | Inter – A – 2021                  | <b>BWP-21</b>       |
| Time :  | 20 Minutes         | Inter ( Part - I )                |                     |
| Marks : | 17                 | Session (2017 -19) to (2020 – 22) |                     |

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 | Inductive reasoning moves from :  |
| (1)    | (A) General to Specific (B) Specific to Specific (C) Specific to General (D) General to General   |
| (2)    | The Ribosomal RNA (rRNA) is synthesized and stored in the :<br>(A) Golgi Complex (B) Centriole (C) Nucleolus (D) Vacuole  |
| (3)    | The Enzymes which are involved in the synthesis of proteins are integral part of :<br>(A) Chloroplast (B) Ribosome (C) Mitochondria (D) Golgi Apparatus           |
| (4)    | The first scientist who determined the sequence of Amino Acid in a protein molecule was :<br>(A) F. Sanger (B) F. Miescher (C) Franklin (D) Wilkins               |
| (5)    | Pig could be the source of infection of Hepatitis : (A) E (B) A (C) B (D) C   |
| (6)    | Typical example of Phylum Basidiomycota is :<br>(A) Penicillium (B) Rhizopus (C) Pilobolus (D) Mushrooms  |
| (7)    | Dinoflagellates belongs to phylum :<br>(A) Chrysophyta (B) Pyrrophyta (C) Rhodophyta (D) Phaeophyta   |
| (8)    | The Bacterial Growth is rapid in :<br>(A) Log Phase (B) Lag Phase (C) Stationary Phase (D) Death Phase  |
| (9)    | Anthoceropsida are commonly known as :<br>(A) Liverworts (B) Mosses (C) Hornworts (D) Club Mosses   |
| (10)   | Glycolysis occurs in : (A) Mitochondria (B) Vacuole (C) Chloroplast (D) Cytosol   |
| (11)   | In Mollusca and Annelida the larva is :<br>(A) Trochophore (B) Bipinnaria (C) Brachiolaria (D) Amphiblastula  |
| (12)   | The reptiles of today has been derived from Dinosaurs of Jurassic period and :<br>(A) Silurian (B) Cretaceous (C) Ordovician (D) Cambrian                         |
| (13)   | The Hypothesis that source of Oxygen released during photosynthesis is water and not Carbondioxide was given by : (A) Calvin (B) Kreb (C) Niel (D) T.W. Engelmann |
| (14)   | The discharge of blood from the blood vessels is called :<br>(A) Stroke (B) Heart Attack (C) Hypertension (D) Haemorrhage   |
| (15)   | Each Air Sac consists of several microscopic single layered structures called :<br>(A) Trachea (B) Alveoli (C) Bronchi (D) Bronchioles                            |
| (16)   | Pepsinogen is secreted by :<br>(A) Zymogen Cells (B) Mucous Cells (C) Parietal Cells (D) Oxyntic Cells  |
| (17)   | The structure involved in Guttation is :<br>(A) Lenticels (B) Stomata (C) Hydathodes (D) Cuticle  |



B



|                      |                  |                                    |                  |
|----------------------|------------------|------------------------------------|------------------|
| Roll No.             | 1111 - 2200      | Session (2017 - 19) to (2020 - 22) | Inter (Part - I) |
| Biology (Subjective) | Inter - A - 2021 | 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.

BWP 21

Make Diagram where necessary.

Part - I

22 x 2 = 44

- Q.No.2
- (i) Differentiate between Nucleoside and Nucleotide.
  - (ii) Define Apoenzyme and Holoenzyme.
  - (iii) Give difference between Prosthetic Group and Activator.
  - (iv) What are Enzyme Inhibitors? Give example.
  - (v) What is Ergotism? How it is caused?
  - (vi) Differentiate between Plasmogamy and Karyogamy.
  - (vii) What is Notochord? Write down its function.
  - (viii) Define Placenta. Write its function.
  - (ix) What is Mantle? In which phylum it is present?
  - (x) Differentiate between Sac-like and Tube-like Digestive System.
  - (xi) Define Photosynthesis with the help of an equation.
  - (xii) Define Alcoholic Fermentation. Write its equation.
- Q.No.3
- (i) Define Life.
  - (ii) What is Integrated Disease Management?
  - (iii) Define Secondary Wall. Also give its chemical composition.
  - (iv) Give two functions of Golgi Apparatus.
  - (v) What is Trichonympha?
  - (vi) Define Pellicle.
  - (vii) Which type of Photosynthetic Pigments are present in plant like protists?
  - (viii) Give resemblances of Green Algae with plants.
  - (ix) Why Bryophytes are called Amphibians of plant world?
  - (x) Differentiate between Ovule and Integuments.
  - (xi) Define Symplast Pathway.
  - (xii) Define Thalassaemia.
- Q.No.4
- (i) Define Binomial Nomenclature and give one example following its rules.
  - (ii) Differentiate between Facultative Bacteria and Microaerophilic Bacteria.
  - (iii) Give names of Salivary Glands with their location.
  - (iv) Differentiate between Appendix and Appendicitis.
  - (v) What is Botulism?
  - (vi) What are Alveoli?
  - (vii) Differentiate between Bronchi and Bronchioles.
  - (viii) Differentiate between Haemoglobin and Myoglobin.
  - (ix) What are Lung Capacities?

Part - II

(3 x 8 = 24)

- Q.No.5
- (a) Write a note on Deductive and Inductive Reasoning with example of each. (4)
  - (b) Discuss role of Influx of Potassium Ions in opening and closing of Stomata. (4)
- Q.No.6
- (a) Write a note on Nucleic Acid. (4)
  - (b) Discuss Economic Losses due to Fungi. (4)
- Q.No.7
- (a) Describe Nutrition in Bacteria. (4)
  - (b) Describe the Evolution of Leaf. (4)
- Q.No.8
- (a) Describe the structure of a Virus giving example of Bacteriophage. (4)
  - (b) Draw outline of the Krebs Cycle. (4)
- Q.No.9
- (a) Differentiate between Prokaryotes and Eukaryotes. (4)
  - (b) Give the role of large intestine in digestion of Man. (4)

