

1122 Warning:- Please write your Roll No. in the space provided and sign. Roll No-----
(Inter Part – I) (Session 2018-20 to 2021-23) Sig. of Student -----

Biology (Objective)

PAPER CODE 2461

Paper (I)

Time Allowed:- 20 minutes

Maximum Marks:- 17

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed.

Q. 1

- 1) The geological period starting from 225 million years ago is
(A) Jurassic (B) Permian (C) Triassic (D) Silurian
- 2) Biologically the most common hexose is
(A) Fructose (B) Glucose (C) Galactose (D) Mannose
- 3) The optimum pH for Pancreatic Lipase is
(A) 3 (B) 6 (C) 9 (D) 12
- 4) The outer surface of cisternae of Golgi complex is
(A) Concave (B) Convex (C) Flattened (D) Round
- 5) About 60% of Adults are immune to
(A) Measels (B) Small Pox (C) Rubella (D) Mumps
- 6) Many species of cyanobacteria form
(A) Water Blooms (B) Algal Blooms (C) Blooms (D) Fungal Blooms
- 7) The giant amoeba obtain energy from
(A) Virus (B) Cyanobacteria (C) Bacteria (D) E.Coli
- 8) The Lichens are Bio indicators of
(A) Pollution (B) Soil Pollution (C) Water Pollution (D) Air Pollution
- 9) The arrangement of leaves in Lycopods is
(A) Spiral (B) Alternate (C) Solitary (D) Upper and Lower
- 10) Pheritima posthumia is the zoological name of
(A) Nerries (B) Earthworm (C) Leech (D) Chaetopterus
- 11) Bilateral symmetry in animals is best correlated with
(A) Diploblastic (B) Triploblastic (C) No tissues (D) Porous
- 12) For Chloroplast to produce Sugar from CO₂ in dark reaction _____ is needed
(A) ADP (B) NAD (C) NADP (D) ATP
- 13) Which redox process is endergonic
(A) Photosynthesis (B) Respiration (C) Glycolysis (D) Krebs cycle
- 14) Hepatic and Pancreatic secretions are stimulated by
(A) Gastrin (B) Pepsin (C) Secretin (D) Amylase
- 15) Human lungs are _____ in nature
(A) Waxy (B) Spongy (C) Fluffy (D) Wavy
- 16) How Sugars are transported in plant cells?
(A) By Sieve (B) By Sieve Pipes (C) By Sieve elements (D) By Sieve Compounds
- 17) Disruptions of Control system of the heart leads to
(A) Hypertension (B) Heart attack (C) Stroke (D) Haemorrhage

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1122 Warning:- Please, do not write anything on this question paper except your Roll No.
Biology (Subjective) (Session 2018-20 to 2021-23) Paper (I)
Time Allowed: 2.40 hours (Inter Part - I) Maximum Marks: 68

Section ----- I

50-22

2. Answer briefly any Eight parts from the followings:- $8 \times 2 = 16$

- (i) Why glycerol is important for the Synthesis of triglycerides?
- (ii) Why in human body vitamins are required in small quantity?
- (iii) Why apoenzyme is non-functional? (iv) Why without enzymes life is impossible?
- (v) What is histoplasmosis? (vi) Differentiate between plasmogamy and karyogamy.
- (vii) What is Swim bladder. In which fishes it is found? (viii) What are urochordates?
- (ix) Enlist three basic characteristics of chordates. (x) What is metamorphosis?
- (xi) What is lactic acid fermentation? (xii) What is chemiosmosis?

3. Answer briefly any Eight parts from the followings:- $8 \times 2 = 16$

- (i) How does theory differ from law? (ii) Define the term species with example.
- (iii) How is centriole important for cell? (iv) Why name peroxisome was applied for this organelle?
- (v) Write importance of Algae. (vi) What are Actinopods? Give example.
- (vii) How do Red Algae play important role in marine environment?
- (viii) Why do biologist regard protists kingdom as polyphyletic group?
- (ix) What are Sori? (x) Differentiate between Antheridium and Archegonium.
- (xi) How heart sound is produced?
- (xii) Differentiate between closed and open blood circulatory system.

4. Answer briefly any Six parts from the followings:- $6 \times 2 = 12$

- (i) In which state phage is called prophage. (ii) What are Pili, Write their function.
- (iii) Differentiate b/w Facultative and obligate parasite. (iv) Write the ingredients of Saliva.
- (v) What is botulism and its cause. (vi) Why the larynx is called voice box.
- (vii) Why respiratory system in birds is more efficient and elaborate.
- (viii) Why the person suffering from emphysema becomes breathless and exhausted even at least exertion.
- (ix) Name the process by which oxygen passes from an alveolus in the lungs into the blood.

Section ----- II

Note: Attempt any three questions. $(8 \times 3 = 24)$

5. (a) To control diseases, how biology has played its role through vaccination and treatment?
(b) Discuss blood plasma in detail?
6. (a) Explain the primary structure of protein with example of insulin and haemoglobin.
(b) Write down different methods of A Sexual reproduction in fungi.
7. (a) Compare photosynthesis in eubacteria and cyanobacteria with special reference to oxygenic photosynthesis in cyanobacteria.
(b) Relate heterospory and modification of megasporangium with adoption of seed habit in spermatophytes.
8. (a) Discuss Biological journey from two to five kingdom classification system.
(b) Sketch Non-cyclic phosphorylation with energy yielding steps.
9. (a) What are plastids? Write their three types in detail?
(b) Give role of liver and pancreas in digestion.