

1124 Warning:- Please write your Roll No. in the space provided and sign. Roll No-----

(Inter Part – I)

(Session 2020-22 to 2023-25)

Sig. of Student -----

Biology (Objective)

Group 1 *SGD-1-24* Paper (I)

Time Allowed:- 20 minutes

PAPER CODE 2461

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) Milk and milk products are preserved by
(A) Pasteurization (B) Vaccination (C) Immunization (D) Cloning
- 2) In alanine R is
(A) NH_3 (B) CH_3 (C) COOH (D) OH
- 3) Competitive inhibitor of succinic acid is
(A) Malonic acid (B) Malate (C) Citrate (D) Fumaric acid
- 4) Function of Golgi apparatus is concerned with
(A) Division (B) Lysis (C) Storage (D) Secretions
- 5) Inflammation of Liver is called
(A) Enteritis (B) Tonsillitis (C) Hepatitis (D) Mumps
- 6) Bacteria grows rapidly in this phase
(A) Lag phase (B) Stationary phase (C) Log phase (D) Decline phase
- 7) Plasmodium reproduces asexually in
(A) Human (B) Binary fission (C) Conjugation (D) Mosquito
- 8) Major structural component of fungus cell wall is
(A) Lignin (B) Pectin (C) Cutin (D) Chitin
- 9) The structure that includes all others is
(A) Ovary (B) Ovule (C) Pistil (D) Style
- 10) The sponge that is called venus flower basket
(A) Sycon (B) Euplectella (C) Leucosolenia (D) Spongilla
- 11) Animals having compound eyes are
(A) Insects (B) Myriapoda (C) Crustacea (D) Hirudinea
- 12) The other name of Calvin cycle is
(A) C_6 Pathway (B) C_5 Pathway (C) C_4 Pathway (D) C_3 Pathway
- 13) The most abundant chlorophyll is
(A) Chlorophyll a (B) Chlorophyll b (C) Chlorophyll c (D) Chlorophyll d
- 14) Serum electrolyte imbalance occurs in
(A) Botulism (B) Dyspepsia (C) Bulimia Nervosa (D) Anorexia Nervosa
- 15) Respiratory pigment in humans is
(A) Bilirubin (B) Haemocyanin (C) Myoglobin (D) Haemoglobin
- 16) Excess fluid in the tissue of the body is
(A) Thrombus (B) Hemorrhage (C) Stroke (D) Oedema
- 17) Narrowing and hardening of arteries is called
(A) Atherosclerosis (B) Necrosis (C) Sclerosis (D) Apoptosis

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2. Answer briefly any Eight parts from the followings:- $8 \times 2 = 16$
- What is an ester? Express it with an equation.
 - How does substrate concentration affect the reaction rate of enzyme?
 - Differentiate binding and catalytic site of enzyme.
 - Write down any two characteristics of enzyme. (v) How can fungi grow on fruits even in refrigerator?
 - Differentiate obligate and facultative parasitic fungi. (vii) What is marsupium? Give its functions.
 - Write down the economic losses caused by phylum mollusca.
 - What are the symptoms of disease caused by hook worms?
 - Why notochord is important in chordates?
 - What are the accessory pigments in plants? Give an example.
 - How glucose is prepared for production of energy?

3. Answer briefly any Eight parts from the followings:- $8 \times 2 = 16$
- What are bio-pesticides? Give example. (ii) Define bioremediation and endangered species.
 - Differentiate chromoplast and leucoplast.
 - Give role and composition of cytoskeleton. (v) Write down the importance of algae.
 - Why the euglenoids are placed in algae as well as in protozoan.
 - Why Kindom Protista is regarded as a polyphyletic group of organisms?
 - Write two characteristics of apicomplexans. (ix) Mention two changes in chest cavity that cause expiration.
 - Differentiate the bronchi and bronchioles. (xi) What are lymph nodes? Give their function.
 - How systolic pressure differs from diastolic pressure?

4. Answer briefly any Six parts from the followings:- $6 \times 2 = 12$
- Define reverse transcriptase enzyme. Also give its function.
 - Differentiate Lag phase and log phase. (iii) Give the scientific name of tomato.
 - How microsporophylls are different from megasporophylls?
 - Draw the labeled diagram of prothallus (Adiantum)
 - Write the names of four extinct earliest vascular plants.
 - What is gastrovascular cavity? Give an example.
 - Draw labelled diagram of large intestine of man.
 - What do you know about "Hunger Pangs".

Section ----- II

Note: Attempt any three questions.

- (8 × 3 = 24)
- Describe role of biology in protection and conservation of environment.
 - What is photorespiration? Give its consequences.
 - Write an essay on Acylglycerols.
 - Discuss economic gains due to fungi.
 - What is the chemical composition of plasma membrane? Discuss the structure of plasma membrane.
 - Discuss/write a note on two methods of nutrition in plants.
 - Explain symptoms, causes, spread and preventions of the AIDS.
 - "Transpiration is a necessary evil" justify the statement.
 - Describe different physical and chemical methods to control bacteria.
 - Give the diagrammatic representation of non-cyclic electron flow in photosynthesis.