



H.S.C. Annual Examinations 2021
(MODEL QUESTION PAPER)
ZOOLOGY PAPER-I
(Science Pre-Medical Group)

Total Duration: 01 Hour 30 minutes

Total Marks: 40

SECTION "A" MULTIPLE CHOICE QUESTIONS (M.C.Os)

Time Allowed: 30 Minutes

Max Marks: 20

Note: This Section consists of 20-part questions and all are to be answered.

Q1. Choose the correct answer for each from the given option:

- I. The smallest unit of life is _____
 - a. Cell
 - b. Atom
 - c. Molecule
 - d. Genes

- II. The part of earth inhabited by living organism
 - a. Biosphere
 - b. Community
 - c. Population
 - d. None of these

- III. Two or more populations of different species living and interacting in the same area are known as
 - a. Community
 - b. Population
 - c. Ecosystem
 - d. All

- IV. The macromolecules which are composed of large number of low molecular weight building blocks are Called
 - a. Monomers
 - b. Bi-mers
 - c. Polymers
 - d. All

- V. The induced fit model was proposed by
 - a. Koshland-1959
 - b. D.d. woods 1959
 - c. H.g. wells 1959
 - d. None

- VI. One of the following is example of co-enzyme
- Nad
 - Fad
 - Both a&b
 - None
- VII. Enzymes are also known as
- Bio-catalysts
 - Catalysts
 - Activator
 - None of these
- VIII. The process by which micro molecules joint together to form macromolecule is called
- Dehydration
 - Condensation
 - Hydrolysis
 - Plasmolysis
- IX. The locomotion in sacrodina is by
- Pseudopodia
 - Cilia
 - Flagella
 - None
- X. Plasmodium belongs to
- Sporozoa
 - Ciliata
 - Sarcodina
 - None
- XI. In sponges body contains
- Pores
 - Wholes
 - Spines
 - None of these
- XII. Malaria is caused by_____.
- Opalina
 - Paramecium
 - Radiolaria
 - Plasmodium
- XIII. The old name of cnidaria was
- Coelenterate
 - Colenteron
 - Annelida
 - Porifera
- XIV. Birds are purely
- Homotherms

- b. Poikilotherms
- c. Autotrophic
- d. None of these

- XV. Hydra is a
- a. Triploblastic organism
 - b. Diploblastic organism
 - c. Both
 - d. None of these

- XVI. The _____ is the voice box.
- a. Larynx
 - b. Bronchus
 - c. Pharynx
 - d. Esophagus

- XVII. Normal heart beat of humans is
- a. 70 per 60 seconds
 - b. 72 per 60 seconds
 - c. 77 per 60 seconds
 - d. Variable

- XVIII. The total life span of erythrocytes is
- a. 100 days
 - b. 120 days
 - c. 210 days
 - d. Variable

- XIX. Liver produces a secretion called _____
- a. Bile
 - b. Amylase
 - c. Saliva
 - d. Lipase

- XX. Stomach directly opens into _____.
- a. Duodenum.
 - b. Colon
 - c. Rectum
 - d. Pharynx



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SECTION 'B' (SHORT-ANSWER QUESTIONS). Marks: 20

2. This part consists of reasoning questions. Attempt any Three-part questions. Each question carries one mark. Give answer not more than two lines. 06 marks

- i. What are macromolecules
- ii. How does an enzyme perform catalytic activity with substrate molecule?
- iii. Why is the blood of insects colorless? OR Why are Amphibians unsuccessful land vertebrates?
- iv. Why is liver called the metabolic factory of the human body?
- v. What do you know about Holozoic Nutrition? OR How does Pearl formation take place in Oysters?
- vi. Why are the lungs of birds more efficient than human lungs? OR Why are leucocytes known as soldiers of the body?

3. Attempt any three-part questions. Each question carries two marks. Answer should not exceed 3 to 4 lines. 06 marks

- i. Write differences between population and community
- ii. Define condensation and hydrolysis? OR Write note on Lock and Key Theory.
- iii. Define Protozoa. Name their four classes with examples.
- iv. Define Diploblastic and Triploblastic organization with examples. OR Name the common edible Fishes of Pakistan.
- v. Describe the silent features of Phylum Annelida. OR Phylum Porifera. Classify them and
- vi. Draw a table to show the levels of Biological organization.
- vii. Describe the functions of Blood. OR Write four functions of Liver.

SECTION "C" (DETAILED-ANSWER QUESTIONS) Max Marks: 08

Note: Attempt any two questions from this section all question carries equal marks.

4. Draw life cycle of malaria with diagram. Define any one phase of cycle either in man or mosquito OR Describe salient features of Phylum Arthropoda. Write name of its three classes with examples.
5. Describe the Digestive system of man with labelled diagram. OR Define Respiration. Explain the respiratory system of Man with diagrams.
6. Describe the internal structure of the Human heart and mechanism of blood circulation through it with the help of diagram.
7. Define immunity. Define Innate OR Adaptive immune system