

BOARD OF INTERMEDIATE EDUCATION, KARACHI

INTERMEDIATE EXAMINATION

MODEL PAPER 2026

BIOLOGY PAPER – I

ZOOLOGY (THEORY)

(Science Pre-Medical Group)

Max. Marks: 32

Time: 1 hour 40 minutes

INSTRUCTIONS: i) SECTION 'B' and SECTION 'C' must be solved on provided **E-Sheet** (Examination Copy).
ii) Student are instructed to write their answers on page allocated for the respective question number.

According to New Book

SECTION 'B' **(SHORT-ANSWER QUESTIONS) Marks: 16**

Note: Answer any **Eight** part questions in all. Select four **Reasoning Questions** and four **Non-Reasoning Questions**. All part questions carry equal marks.

2. a) Reasoning Questions:

- i) Why does an oil drop spread when placed on the surface of water?
- ii) Aschelminthes possess a body cavity, but it is called a pseudocoelom. Why?
- iii) Why is inflammation not always beneficial to the body?
OR
Why closed circulatory system is more efficient than an open circulatory system?
- iv) Why does gastric acid not damage the stomach lining?
OR
How does pH affect enzyme activity?
- v) Why do fats yield more energy than carbohydrates?
OR
Why does the rate of breathing increase during exercise or running?

b) Non-Reasoning Questions:

- vi) Differentiate between cartilaginous fish and bony fish.
- vii) Mention the structure of DNA.
OR
Define blood pressure.
- viii) Write note on pulmonary tuberculosis.
OR
Define protostomes and deuterostomes.
- ix) Write note on single circulation and double circulation with examples.
OR
Define enzyme concentration and substrate concentration.

SECTION 'C' **(DETAILED-ANSWER QUESTIONS) Marks: 16**

Note: Answer any **Two** questions from this section. All questions carry equal marks.

- 3. Describe the classification of proteins. Also list structural and functional proteins with examples.
- 4. Describe the general characteristics of Class Aves. Also mention its subclasses with suitable examples.
- 5. What is the innate immune system? Give a detailed account of the first line of defense.
OR
Define Lymphatic System. Describe Lymphatic System of man. Write its significance.

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BIOLOGY PAPER – I

ZOOLOGY (THEORY)

(Science Pre-Medical Group)

Max. Marks: 08

Time: 20 minutes

According to New Book

SECTION ‘A’

(MULTIPLE CHOICE QUESTIONS) – (M.C.Qs.)

Marks : 08

NOTE:

- This section consists of 16 part questions and all are to be answered. Each part question carries 0.5 mark.
- This Section ‘A’ of Multiple Choice Question (MCQs) must be solved on the **MCQs/OMR sheet** enclosed on the last page of provided **E-Sheet & OMR** (Examination Copy).
- The correct answer bubble must be filled on MCQs / OMR sheet 1) ☐ A ☐ B ☐ C ☐ D
- Use only blue / black ball point on MCQs / OMR sheet.
- Avoid pencil / White-o pen / correction pen / ink remover and gel pen to solve the question on MCQs / OMR sheet.
- All notations are used in their usual meanings. The use of Scientific Calculator is allowed.

1. Choose the correct answer for each from the given options:

- This is an example of a steroid:
A) Aldosterone B) Testosterone C) Insulin D) Glycogen
- The non-protein part of an enzyme is called:
A) Co-enzyme B) Co-factor C) Apo-enzyme D) Holoenzyme
- This is an example of a water vascular system:
A) Prawn B) Unio C) Planaria D) Starfish
- These teeth are used to tear flesh:
A) Molar B) Incisor C) Canine D) Premolar
- Foreign material blocking an artery is an example of:
A) Thrombus B) Inflammation C) Embolus D) Edema
- The protein portion of an enzyme without its co-enzyme is called:
A) Apoenzyme B) Holoenzyme C) Prosthetic group D) Substrate
- Oxygenated blood first drains into the:
A) Right ventricle B) Left atrium C) Right atrium D) Left ventricle
- Antibodies are produced by:
A) T-cells B) B-cells C) Plasma cells D) Macrophages
- This carbohydrate is not digested in the human body:
A) Starch B) Cellulose C) Fructose D) Lactose
- This is the oxygen carrier in blood:
A) Myoglobin B) Haemocyanin C) Haemoglobin D) Oxytocin
- This structure provides support to the body of a sponge:
A) Spicule B) Gemmule C) Spongocoel D) Amoebocyte
- Degeneration of alveoli leads to:
A) Tuberculosis B) Emphysema C) Sinusitis D) Pneumonia
- This is an example of a globular protein:
A) Haemoglobin B) Silk C) Elastin D) Collagen
- This character is absent in lamprey:
A) Teeth B) Jaws C) Tongue D) Gills
- This artery supplies blood to the heart:
A) Coronary artery B) Pulmonary artery C) Renal artery D) Systemic artery
- All actively participate in phagocytosis except:
A) Neutrophil B) Basophil C) Monocyte D) Macrophage

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