

(6 pages)

Reg. No. :

Code No. : 30717 E Sub. Code : EFZO 11

B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2025.

First Semester

Zoology

Foundation Course — INTRODUCTION TO
ZOOLOGY

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Who is the father of zoology?
 - (a) Carl Linnaeus
 - (b) Aristotle
 - (c) Charles Darwin
 - (d) Gregor Mendal

2. A group of animals having similar morphological features of a rank is
 - (a) Family
 - (b) Genus
 - (c) Phylum
 - (d) Species
3. Which organelle acts as a carrier of hereditary informations?
 - (a) Mitochondria
 - (b) Ribosome
 - (c) Golgi body
 - (d) Nucleus
4. Stomata is absent in submerged aquatic plants and animal cells. Is it true or false.
 - (a) False
 - (b) True
 - (c) False or True
 - (d) none of these
5. Which is the building block of proteins?
 - (a) Fatty acids
 - (b) Glucose
 - (c) Vitamin K
 - (d) Amino acids

6. A person met a road accident, he has an emergency of immediate blood transfusion, but the blood group of this man is unknown. In this condition, which blood group will be selected by the doctor?

- (a) AB⁻ (b) B⁺
(c) O⁻ (d) A⁻

7. Find out the abiotic factors of a forest ecosystem.

- (a) Lion, Tiger, Fox, Snake
(b) Air, Water, Soil, Light
(c) Deer, Elephant, Rabbit, Monkey
(d) All the above

8. Amount of nitrogen in the atmosphere is

- (a) 21% (b) 76%
(c) 1% (d) 78%

9. What is the role of drones in a bee colony?

- (a) Build and repair combs
(b) Feed the young ones
(c) Defend the colony
(d) Take part in nuptial flight

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10. Pick the destination known for Ecotourism practices

- (a) Honey Hills-Thenmala, Kerala
(b) Bandipur National park, Karnataka
(c) Sunderbans National park
(d) All the above

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) What is an invertebrate? on what basis animals have been classified as invertebrates?

Or

(b) Explain the taxonomical Hierarchy.

12. (a) What are the differences between prokaryotic and eukaryotic cell?

Or

(b) Add a note on types of RNA.

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[P.T.O.]

13. (a) Why the water is necessary to our body? Explain.

Or

(b) What is neuron? Explain the structure of neuron with a neat diagram.

14. (a) Write note on the following :

(i) Primary producers

(ii) Consumers.

Or

(b) What is paelaeontology? What are the importance of paelaeontology?

15. (a) List out the socio-economic development of farmers, by rearing of silkworm in India.

Or

(b) Discuss about the benefits of dairy farming.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) How can you differentiate invertebrates and vertebrates? Explain with suitable examples.

Or

(b) Elucidate about binomial nomenclature and its rules.

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17. (a) Explain about Waston and crick model of DNA.

Or

(b) Elaborate about the controlling centre of a cell and its functions.

18. (a) How will you classify carbohydrates?

Or

(b) Describe the major organ systems of the human body and their physiological functions.

19. (a) Describe about the consequences of ozone layer depletions on the environment and organisms on the earth.

Or

(b) Write a summary about Darwin's theory of Evolution.

20. (a) How will you start a small poultry farm at home to generate extra income?

Or

(b) Write an essay about social organisation of Honey Bees.

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