

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(3 Pages)

Reg. No:.....

Question Code: 26E00611

Course Code : 25UFZO11

UG Degree - End Semester Examinations, April 2026

First Semester

B.Sc., ZOOLOGY

Introduction to Zoology

(For those who joined in June 2025 onwards)

Time : 3Hours

Maximum : 75 Marks

PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

- CO:1 1. Who coined the term “taxonomy”?
K:1 (a) Carolus Linnaeus (b) Aristotle
(c) Whittaker (d) Haeckel
- CO:1 2. In the two-kingdom classification, organisms were grouped into:
K:2 (a) Plants and Animals (b) Monera and Protista
(c) Plantae and Fungi (d) Animals and Protists
- CO:2 3. Name the cell organelle which is known as the “powerhouse of the
K:2 cell” ?
(a) Nucleus (b) Ribosome
(c) Mitochondrion (d) Endoplasmic reticulum
- CO:2 4. DNA and RNA are composed of repeating units called:
K:3 (a) Amino acids (b) Fatty acids
(c) Nucleotides (d) Monosaccharides
- CO:3 5. Which of the following is the primary structural component of
K:3 cells and tissues?
(a) Carbohydrates (b) Proteins
(c) Lipids (d) Vitamins
- CO:3 6. Find the main storage form of carbohydrates in animals.
K:1 (a) Glucose (b) Cellulose
(c) Glycogen (d) Starch

- CO:4 7. Which layer of the atmosphere contains most of the weather
K:3 phenomena?
(a) Stratosphere (b) Troposphere
(c) Mesosphere (d) Thermosphere
- CO:4 8. For what purpose Cow urine is used in Ayurveda?
K:2
(a) Nutritional purposes only (b) Therapeutic and medicinal purposes
(c) Cosmetic purposes only (d) Construction purposes
- CO:5 9. Sericulture means the rearing of:
K:4
(a) Bees (b) Silkworms
(c) Earthworms (d) Fish
- CO:5 10. Which of the following is considered a poultry product?
K:4
(a) Milk (b) Honey
(c) Silk (d) Eggs

PART - B (5 X 5 = 25 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 250 words.

- CO:1 11. (a) Define taxonomy and explain its importance in biology.
K:3
(OR)
(b) Differentiate between the two-kingdom and five-kingdom classification systems.
- CO:2 12. (a) Distinguish between prokaryotic and eukaryotic cells.
K:1
(OR)
(b) Describe the structure and function of the nucleus.
- CO:3 13. (a) Write short notes on the biological importance of proteins.
K:3
(OR)
(b) What are lipids? Mention their functions in the body.
- CO:4 14. (a) Define atmosphere and list its major strata.
K:5
(OR)
(b) Write short notes on Ayurveda.
- CO:5 15. (a) Describe dairy farming and its contribution to human nutrition and economy.

K:4

(OR)

(b) Summarize the economic importance of sericulture.

PART - C (5 X 8 = 40 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 500 words.

CO:1 16. (a) Compare and contrast invertebrates and chordates based on
K:3 structural and functional organization.

(OR)

(b) Describe the classification of the animal kingdom, giving salient features and examples of each phylum.

CO:2 17. (a) Discuss Mendel's laws of inheritance and their significance in
K:2 modern genetics.

(OR)

(b) Describe the structure, composition and function of DNA with a neat labeled diagram.

CO:3 18. (a) Write an essay on the importance of water in biological
K:4 systems and homeostasis.

(OR)

(b) Discuss in detail the functions and classification of vitamins and their deficiency diseases.

CO:4 19. (a) Explain the concept of habitat and ecological niches with
K:3 suitable examples.

(OR)

(b) Explain in detail the therapeutic importance of cow urine and milk in Ayurvedic medicine.

CO:5 20. (a) Explain the life cycle of the honey bee and its economic
K:4 importance.

(OR)

(b) Discuss poultry management, including housing, feeding and disease control for profitable production.