

# **KAMARAJ COLLEGE (Autonomous)**

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

**(5 Pages)**

**Reg. No: .....**

**Question Code No : 25000604**

**Course Code : 25UFZ011**

**UG Degree - End Semester Examinations, November 2025**

**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:**

1. Which of the following organisms belongs to the phylum Echinodermata?  
(a) Octopus (b) Star fish  
(c) Earthworm (d) Leech
2. Which of the following is a characteristic of phylum Annelida?  
(a) Segmented body (b) Jointed appendages

- (c) Radial symmetry                      (d) Pseudocoelom
3. Which of the following organelle is known as the 'Powerhouse of the cell'?
- (a) Ribosome                      (b) Golgi apparatus  
(c) Mitochondrion                      (d) Lysosome
4. Name the sugar present in RNA.
- (a) Deoxyribose                      (b) Ribose  
(c) Glucose                      (d) Fructose
5. State the primary function of carbohydrates in the human body.
- (a) Building enzymes                      (b) Storing genetic information  
(c) Providing energy                      (d) Transporting oxygen
6. Which organ system is primarily responsible for transporting oxygen and nutrients throughout the body?
- (a) Respiratory system                      (b) Digestive system  
(c) Excretory system                      (d) Circulatory system
7. Which layer of the atmosphere contains the Ozone layer?
- (a) Troposphere                      (b) Stratosphere  
(c) Mesosphere                      (d) Thermosphere
8. Which system of traditional medicine extensively uses cow urine for therapeutic purposes?

- (a) Unani (b) Siddha  
(c) Homeopathy (d) Ayurveda

9. Find a major agricultural application of Apiculture.

- (a) Pollination of crops (b) Soil aeration  
(c) Fertilizer production (d) Pest control

10. How does dairy farming contribute to nutritional security?

- (a) Carbohydrates (b) Fiber  
(c) Proteins and calcium rich foods (d) Only fats

**PART - B (5 X 5 = 25 Marks)**

**Answer ALL Questions choosing either (a) or (b).  
Answer should not exceed 250 words.**

11. (a) Identify the basis of classification of the animal kingdom.

**(OR)**

(b) Examine the salient features of invertebrates.

12. (a) Analyse the importance of cell organelles.

**(OR)**

(b) Discover the structure and functions of DNA.

13. (a) Inspect the role of vitamins in our body.

**(OR)**

(b) Determine the biological role of lipids.

14. (a) Explain the basics of atmosphere and its strata.  
**(OR)**  
(b) Identify the therapeutic uses of animal products.
15. (a) Discover the applications of sericulture in various field.  
**(OR)**  
(b) Inspect the uses of vermiculture in gardening and other industries.

**PART - C (5 X 8 = 40 Marks)**

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

**Answer should not exceed 500 words.**

16. (a) Explain the salient features of the phylum chordate.  
**(OR)**  
(b) Elaborate the concept of binominal nomenclature. What are its main rules and advantages?
17. (a) Organize the ultrastructure of eukaryotic cells with a neat labelled diagram.  
**(OR)**  
(b) Analyse the concept of Mendelism and inheritance.
18. (a) Explain the role of protein and its importance in living organisms.

**(OR)**

(b) Elaborate the vital organ systems and their functions.

19. (a) Examine the components of an ecosystem.

**(OR)**

(b) Discuss the animal products used in traditional and modern medicine.

20. (a) Predict the applications of aquaculture in industry, medicine and environmental conservation.

**(OR)**

(b) Invent the various advantages of poultry keeping in food, industry and agriculture.