

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)
THOOTHUKUDI – 628 003

(4 Pages)

Reg. No:

Question. Code No : 2400064

Sub Code : 24UFZ011

UG Degree - End Semester Examinations , November 2024

First Semester

B.Sc. Zoology

FC - INTRODUCTION TO ZOOLOGY

(For those who joined in July 2024 onwards)

Time : 3Hours

Maximum : 75 Marks

PART A - (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

1. Salamander belongs to the class
(a) Pisces (b) Aves
(c) Reptiles (d) Amphibian
2. Select the correct pair
(a) Arthropoda- silver fish (b) Pisces- jelly fish

- (c) Echinodermata- cuttle (d) Mollusca- star fish fish
3. Which of these scientists formulated the cell theory?
(a) Schleiden and Schwann (b) Rudolf Virchow
(c) Robert Koch (d) Antony Von Leeuwenhoek
4. The type of coiling in DNA is
(a) Zig-zag (b) Left-handed
(c) Opposite (d) Right-handed
5. Which of the following vitamin helps in blood clotting?
(a) Vitamin A (b) Vitamin C
(c) Vitamin D (d) Vitamin K
6. Which of these is not a lipid?
(a) Fats (b) Oils
(c) Proteins (d) Waxes
7. Egg development without fertilization is known as
(a) Parthenogenesis (b) Metagenesis
(c) Gametogenesis (d) Oogenesis
8. On the Origin of Species was written by _____
(a) Ludmila Kuprianova (b) Charles Darwin
(c) Mikhail A. Fedonkin (d) None of the above
9. This is apt for vermicomposting
(a) Algae (b) Nitrifying bacteria
(c) Earthworms (d) Fungus
10. Which of the following has the generic name Apis?
(a) Fish (b) Honey bee
(c) Lac insect (d) Prawn

PART B - (5X5=25Marks)

**Answer All Questions choosing either (a) or (b).
Answer should not Exceed 250 words.**

11. (a) List out general characteristics of phylum Coelenterata.

(OR)

(b) Summarize the salient features of phylum Protozoa.

12. (a) Comment on Cell theory.

(OR)

(b) Explain the general account on Mendelism and inheritance.

13. (a) Discuss the importance of Vitamins.

(OR)

(b) Describe the role of protein in muscle development.

14. (a) Explain the importance of Palaeontology.

(OR)

(b) Comment on Gametogenesis.

15. (a) Brief account on Aquarium keeping.

(OR)

(b) Give an account on Ecotourism.

PART C - (5 × 8 = 40 Marks)

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

Answer should not Exceed 500 words.

16. (a) Describe about the characteristics features of Invertebrates.

(OR)

(b) Describe about the characteristics features of Invertebrates.

17. (a) Describe the modern concept of gene.

(OR)

(b) Differentiate the prokaryotic and Eukaryotic cell with an examples.

18. (a) Enumerate the physiological role of lipids.

(OR)

(b) Explain the physiological role of carbohydrates.

19. (a) Describe about modern synthetic theory.

(OR)

(b) Explain the concept and components of ecosystem.

20. (a) What is Sericulture and what are its applications?

(OR)

(b) What are the applications of Biotechnology?