Reg No:..... K24FY1354
Name :.....

First Semester FYUGP Zoology Examination
November 2024 (2024 Admission onwards)
KU1DSCZOO101 (INTRODUCTION TO ZOOLOGY)
(EXAM DATE : 02-12-2024)

Time : 90 min Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. What are variations? 2
2. What is heterotrophy? Give an example of a heterotrophic animal. 2
3. Which phylum does: a) tape worm and b) cow, represent? 2
4. What is cephalisation? In which animals do we find it? 2
5. How is Surface area- Volume ratio related to evolution? 2
6. What are the shell layers of Mollusca? 2
7. How does the nerve cord of a non-chordate and chordate differ? 2
8. What is traditional evolutionary taxonomy? 2

Part B (Answer any 4 questions. Each carries 6 marks)

9. Imagine you collected a radially symmetrical, diploblastic, heterotrophic organism. Place the animal you collected in the hierarchical classification followed by zoologists. 6
10. Compare and contrast the body plans of Radiata and Bilateria. 6
11. Identify and describe the three types of muscle tissue. Explain the primary function of each type. Discuss how these muscle tissues work together to maintain overall bodily function? 6
12. Create a detailed classification chart for major phyla within Protostomia, including key characteristics and examples. 6
13. Why are echinoderms included under bilateria, despite them exhibiting radial symmetry? 6
14. What is the problem of classifying Aves as a distinct class and Hominidae as a distinct family? 6

Part C (Answer any 1 question(s). Each carries 14 marks)

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15. Explain the characterestics of science? Explain scientific method and how different phenomena are studied or explained? 14

16. (a) Differentiate between evolutionary and phylogenetic taxonomic practices? 7

    (b) Discuss how preservation techniques affect the usability of specimens in taxonomic research. 7

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