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TOPICS FOR INTERNAL ASSESSMENT ASSIGNMENTS (2008-09)
Course: M.Sc. ZOOLOGY (Previous)

Note: Students are advised to read the separate enclosed instructions before beginning the writing of assignments.

Out of 15 Internal Assignment marks per paper, 5 marks will be awarded for regularity (attendance) to Counseling/ Contact Programme/ Practical classes pertaining to the paper. Therefore, the topics given below are only for 10 marks each paper.

Paper I: Animal forms and functions and Ecobiology

1. a) Write an essay on locomotion in protozoa.
OR
b) Describe in detail about interrelationships of protochordate groups. **5 Marks**
2. a) Critically comment on food chain, food webs and ecological pyramids.
OR
b) Write an essay on population dynamics. **5 Marks**

Paper II: Physiology and Biological Chemistry

1. a) Explain digestion mechanism in animals and write a note on gastrointestinal disorders.
OR
b) Give a detailed account on thermoregulation. **5 Marks**
2. a) Describe the properties of lipids and explain their metabolism.
OR
b) Define an enzyme and add a note on its mechanism of action. **5 Marks**

Paper III: Parasitology and Animal Behavior

1. a) Write an essay on origin and evolution of parasites and comment on their habitats.
OR
b) Illustrate the cellular and physiological relationships between host and parasites. **5 Marks**
2. a) Describe reflex and complex behaviour with suitable examples of animal systems.
OR
b) Sexuality and courtships are conflict behaviours – justify. **5 Marks**

Paper IV: Cytogenetics and Developmental Biology

1. a) Illustrate with suitable diagram the ultrastructure of chromosome.
OR
b) Give an account on concept of gene. **5 Marks**
2. a) Describe fate maps.
OR
b) Discuss recent findings in relation to genes in the development of Drosophila. **5 Marks**