

UG-363

BZOOI-2A

**B.Sc. DEGREE EXAMINATION –
DECEMBER 2019.**

First Year

Zoology

GENERAL BOTANY

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. State the general characters of the family Liliaceae.
2. Sketch, label and describe the structure of a mature ovule.
3. Describe the structure of a pollen grain.
4. Differentiate between C3 and C4 plants.
5. Write an essay about water pollution.

6. Explain the food chain.
7. Give brief account on chromosome mapping.
8. Define back cross. Explain with an example.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

9. Give the outline of Bentham and Hooker's system of classification.
10. Narrate the distinguishing characters and economic importance of family Euphorbiaceae.
11. Explain the structure and development of male gametophyte.
12. Mention the physiological role of macro elements and their deficiencies.
13. Explain the reactions involved in Kreb's cycle.

14. Describe the properties, structure and functions of pond ecosystem.
 15. Define dihybrid cross. Explain with an example.
 16. What are pollutants? Mention their types and effects on environment.
-

UG-362

BZOO1-1

**B.Sc. DEGREE EXAMINATION —
DECEMBER, 2019.**

First Year

Zoology

INVERTEBRATE ZOOLOGY

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write short notes on taxonomic categories.
2. List the general characteristic features of phylum Porifera.
3. Discuss the parasitic adaptations of helminthes.
4. Classify phylum arthropoda up to classes with an example.
5. Write the general characters of phylum Mollusca.

6. Comment on the polymorphism forms of Trypanosoma.
7. Describe the structure of medusa.
8. Earthworms are farmers' friend-Justify.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

9. Write an essay on life history of malarial parasite.
10. Give a detail account on types and formation of coral reefs.
11. Describe the reproductive organs of tapeworm.
12. Write in detail about the appendages of prawn.
13. With neat diagram explain the water vascular system of starfish.
14. Write an essay on canal system in sponges.
15. Describe the affinities of *Peripattus*.
16. Write in detail about the larval forms of echinoderms and their significance.