

Reg. No.....

Name.....

24UH1076

BA / BSc / BCOM DEGREE END SEMESTER EXAMINATION - NOVEMBER 2024

UGP (HONS.) SEMESTER - 1: DISCIPLINE SPECIFIC COURSE (ZOOLOGY)

COURSE: 24UZOODSC101/24UZOODSC102: INTRODUCTION TO ZOOLOGY

(For Regular 2024 Admission)

Time: 1.5 Hours

Max. Marks: 50

PART A

Score maximum of 10 marks from 12 questions

1. What does it mean by the rejection of a nest by a female weaverbird?
2. Recollect the significance of hexagonal shape in the construction of a honeycomb.
3. Spider silk is incompatible with the living tissue. Agree or Disagree. Why?
4. Point out the reason for the nickname 'stars of the earth' for fireflies.
5. Bioinformatics combines your biology knowledge with _____ tools to analyse large amounts of biological data.
6. Define animal systematics.
7. What is the role of a Curator in a zoological park and what qualifications are needed?
8. Expand CSIR.
9. Where does the male Darwin frog carry its offspring?
10. What is the primary purpose of the bright colours of butterflies?
11. Name the reptile famous for changing its colour.
12. Name the insect known for its eye-spot patterns on its wings.

(1 x 10 = 10)

PART B

Match the following

- | | |
|-------------------------------|--------------------------|
| 13. QMP | a. Immunology |
| 14. Antibodies,WBC | b. Developmental biology |
| 15. Magnificent tail feathers | c. Altruism |
| 16. Weaver bird | d. Mimicry |
| 17. Zygote | e. Peacock |
| 18. Incredible leaf mimicry | f. Honeybee |
| | g. Termites |
| | h. Anisodactyly |
| | i. Leaf insect |

(1 x 6 = 6)

PART C
Assertion and Reason

Answer All. State whether assertion /reason is true or false giving explanation

19. Assertion (A) : Termites are known as 'silent destroyers'.
Reason (R) : Termites have a mutualistic relationship which help them to damage the wood
20. Assertion (A) : Batesian mimicry involves two or more harmful species resembling each other.
Reason (R) : Batesian mimicry helps in the mutual protection of the species involved.
21. Assertion (A) : The National Centre for Biological Sciences (NCBS) is located in Bengaluru, Karnataka.
Reason (R) : NCBS is a premier research institute focused on advanced research in biological sciences and is part of the Tata Institute of Fundamental Research (TIFR).

(3 x 3 = 9)

PART D

Short Answers- Quote example wherever required
Answer any five questions. Each one carries 3 marks

22. Examine waggle dance as a vital behavior for the survival and efficiency of honeybee colonies
23. The glowing lure and menacing look have earned a reputation the "glowing monster" of the deep sea for angler fish. Justify the statement with your arguments
24. Define ethology and explain its scope within the field of biology.
25. Describe the main areas of research for entomology and parasitology and explain their significance in biology
26. What is cryptic coloration, and how does it benefit an animal?
27. What role does the male giant water bug play in the care of its eggs?

(3 x 5 = 15)

PART E

Answer in a page. Answer any one question

28. Narrate the story of pearl formation focusing on the process of picking a best Pearl.
29. Discuss the unique reproductive role of the male seahorse and how it challenges traditional gender roles in animal parenting.
30. Describe five exciting branches of research currently being explored in the field of biology.

(10 x 1 = 10)