

Reg. No

Name

22U132

B. Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022

SEMESTER 1 : ZOOLOGY

COURSE : 19U1CRZOO1 : ANIMAL DIVERSITY NON - CHORDATA - 1

(For Regular – 2022 Admission and Improvement / Supplementary - 2021/2020/2019 Admissions)

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 markeach)

1. Define scientific temper
2. Provide a good example for mutualistic relationship
3. Why the name 'Cnidarians' ?
4. Define bioluminescence ?
5. What is coelom ?
6. What is meant by lasso cells?
7. What is Systematics ?
8. Name the causative agent and vector of trichomoniasis

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Differentiate hard coral and soft coral
10. Define Enterocoelous coelom ?
11. Nuclear organization does not occur in the binary fission of *Paramecium*. Justify the statement
12. Provide any six criterias to classify animal kingdom
13. What is syngamy?
14. Define hypothesis testing ?
15. How cnidoblasts are different from statocyst?
16. Describe on a sporozoan parasite

(2 x 6 = 12)

PART C

Answer any 4 (4 marks each)

17. Describe the structure of *Obelia* colony with suitable sketch
18. Explain the process of autogamy? Add note on its significance
19. Describe features of each kingdom as recognized in the five kingdom classification.
20. Evaluate how the mechanism of endomixis is done in *Paramecium* ? Add notes on its significance
21. Explain protostomia and dueterostomia
22. Discuss on Coelom.

(4 x 4 = 16)

PART D

Answer any 2 (12 marks each)

23. Explain the methods of conservation of coral reefs focusing on its importance and challenges
24. Elucidate the mechanism of water transport in sponges.
25. Elaborate the process of nutrition and digestion in Paramecium. Use neat illustrations
26. Write an essay on the different approaches currently used in animal taxonomy.

(12 x 2 = 24)