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Reg. No. : .....

Name : .....

First Semester B.Sc. Degree Examination, June 2022

First Degree Programme under CBCSS

Zoology

Complementary Course for Botany, Home Science and Bio-Chemistry

ZO 1131.1 : ANIMAL DIVERSITY I

(2020 Admission Onwards)

Time : 3 Hours Max. Marks : 80

Instruction: Give illustrations and figures wherever necessary.

I. Answer **all** the questions in **one** or **two** sentences. **Each** question carries 1 mark.

1. Describe the role of gas vacuoles in osmoregulation in *Paramecium*.
2. Define bilateral symmetry with one example.
3. What is 'Red tide'.
4. What are Cnidoblasts?
5. Comment on Veliger larva.
6. What is Book lungs?
7. What is Hirudin?
8. Mention any two diseases spread by mosquitoes.

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9. Write the scientific names of any two posts of stored food grains.

10. What is" Aristotle's Lantern"?

(10 × 1 = 10 Marks)

II. Answer any **eight** questions each question carry **2** marks and answers should not exceed **one** paragraph.

11. Differentiate between deuterostomes and protostomes with examples.

12. How can you distinguish between a mate and female prawn.

13. Explain the phenomenon parasitic castration? Cite an example

14. Define polymorphism in *Physalia*.

15. What is Parapodium?

16. Comment on Trochophore larva.

17. What is typhlosole? Mention its function.

18. Comment on Trichonympha.

19. What do you mean by five kingdom classification?

20. Describe the salient features of phylum Dinoflagellata.

21. Comment on the diagnostic features of class *Arachnida*.

22. Comment on vermiculture.

23. Define mutualism by citing one example from phylum Cnidaria.

24. Describe the pathogenicity of any two human nematode parasites.

25. Comment on the damages and prophylaxis of *Oryctes* rhinoceros

26. Comment on *Pinctada*. Mention it's economic importance.

(8 × 2 = 16 Marks)

III. Answer any **six** questions. **Each** question carries **4** marks, each answer should not exceed 120 words.

27. Comment on the morphology of *Limulus*.

28. Describe any two pests of paddy.

29. Write down the general features of phylum Echinodermata.

30. Comment on the *Anopheles* and *Aedes* mosquitoes.

31. Describe the different types of coelom present in the kingdom Animalia.

32. Comment on *Fasciola*. Add a note on life cycle and pathogenicity.

33. Comment on the economic importances of mollusc.

34. Describe the digestive system of cockroach with the help of labeled diagrams.

35. Describe the external morphology of prawn with the help of labeled diagrams.

36. Comment on oligochaeta.

37. Describe the different branches of animal kingdom.

38. Comment on Aurelia with special emphasis on the life cycles and larval stages.

(6 × 4 = 24 Marks)

IV. Answer any **two** questions. **Each** question carries **15** marks.

39. Write an essay on the larval stages involved in the development of Echinoderms.

40. Write an essay on the salient features of phylum Rhizopoda. Add a note on the life history of Entamoeba histolytica.

41. Write an essay on any four parasitic helminthes of humans or other mammals.

42. Write an essay on the polymorphism in the phylum Cnidaria.

43. Classify kingdom Protista. Write down the general features, salient features of each phyla citing examples.

44. Write an essay on the appendages of Prawn with proper illustrations

(2 × 15 = 30 Marks)
