E 8353 (Pages : 2) Reg. No.....

Name.....

B.Sc. DEGREE (CBCS) EXAMINATION, JANUARY/FEBRUARY 2018

First Semester

B.Sc. Zoology

Core Course—GENERAL PERSPECTIVES IN SCIENCE AND PROTISTAN DIVERSITY

(Common to B.Sc. Zoology—Model I, Model II—Aquaculture, Model II—Food Microbiology, Model II—Medical Microbiology)

(2017 Admissions)

Time : Three Hours Maximum Marks : 60

Part A

Answer any **ten** *questions.*
Each carries 1 *mark.*

1. What is Bioluminescence ?
2. What is Paedogenesis ?
3. What is multi access keys ?
4. What is frustule ? What is its significance ?
5. What is scientific temper ?
6. Write any two salient features of phylum cryptophyta.
7. What is hypothesis ?
8. What is nosemosis ?
9. Expand ICZN.
10. What is cryobiology ?
11. Mention any two DNA Barcoding applications.
12. Name the neurotoxin produced by Dinoflagellates.

(10 × 1 = 10)

Part B

Answer any **six** *questions.*
Each carries 5 *marks.*

13. Briefly explain the features of science.
14. Write a note on the steps involved in scientific method.

Turn over

15. Write down the process of conjugation in paramecium. Write any three biological significance of conjugation.
16. Enumerate the various Tools of classification.
17. Write about the protozoan parasite—Leishmania donovani.
18. Differentiate between Diarrhetic shell fish poisoning and ciguatera poisoning.
19. Write an account of different types of knowledge.
20. Entamoeba histolytica is a medically significant Rhizopoda. How can you justify this comment.
21. Comment on the significance of molecular taxonomy.

(6 × 5 = 30)

Part C

Answer any two questions.
Each carries 10 marks.

22. Explain the various systems of classification with special emphasis on five kingdom classification. Write a brief notes on the merits and demerits of five kingdom classifications.
23. Write an essay on diseases mode of transmission and prophylactic measures of *Trypanosoma*.
24. With suitable examples, distinguish between phylum chlorophyta and phylum Rhodophyta.
25. Describe the modern trends in taxonomy. Write briefly on the branches of biology.

(2 × 10 = 20)