G 5949 (Pages : 2) Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, MAY 2017

First Semester

Faculty of Science

Branch VIII—Zoology

ZY1CT01—BIOSYSTEMATICS AND ANIMAL DIVERSITY

(2012 Admission onwards—Supplementary/Mercy Chance)

Time : Three Hours Maximum Weight : 30

Section I (Short Answer Type Questions)

Answer any **ten** *questions.*
Each question carries a weight of 1.

Write notes on :

1. Typification.
2. Higher taxa.
3. Taxonomy.
4. Phenetics.
5. Homonymy and Synonymy.
6. ICZN.
7. Three domain concept in systematics.
8. Pseudocoelomata.
9. Monophyly and Polyphyly.
10. Brachiopoda.
11. Placoderms.
12. Eutheria.

(10 × 1 = 10)

Section II (Short Essay Type Questions)

Answer any **five** *questions.*
Each question carries a weight of 2.

13. Briefly explain the tree of life and bar-coding of life.
14. List down the undesirable practices in taxonomy.
15. Explain three domain concept in systematics.

Turn over

16. Write down the evolutionary significance of hemichordates.
17. Explain the structure adaptations of fishes.
18. Give the reasons for the extinction of mesozoic reptiles.
19. Trace the origin of mammals.
20. Explain the structural and functional modifications for aerial life of birds.

(5 × 2 = 10)

Section III (Long Essay Type Questions)

Answer any **two** *questions.*
Each question carries a weight of 5.

21. Write about the collection, preservation, curetting and process of identification.
22. Explain the types, use and merits and demerits of keys.
23. Discuss about the levels of organization in animal kingdom.

(2 × 5 = 10)