

Reg. No. : .....

Name : .....

**First Semester M.Sc. Degree Examination, August 2021.**

**Zoology**

**ZO 211 : SYSTEMATICS AND EVOLUTIONARY BIOLOGY**

**(2019 Admin Onwards)**

Time : 3 Hours

Max. Marks : 75

SECTION – A

Write a brief notes on **any ten** of the following. Each question carries **2** marks.

1. ICZN
2. Race
3. Clasper
4. Holotype
5. Phenon
6. Homonymy
7. Methanogens
8. CBOL
9. Sympatric
10. Prosimii

P.T.O.



11. Punctuated equilibrium
12. Cro-magnon man
13. Molecular Drive
14. Hadzi and Hanson
15. Big Bang theory

**(10 × 2 = 20 Marks)**

**SECTION – B**

Write a short notes on **any six** of the following. Each question carries **4** marks.

16. Preservation.
17. Mention the merits of taxonomic keys.
18. Write a note on the types of lineage changes.
19. Cytotaxonomy.
20. Explain the extra terrestrial life
21. Give short note on ancient DNA
22. Gene evolution
23. Explain the origin of metazoan
24. Write a note on extinction of trilobites
25. Evolution of culture

**(6 × 4 = 24 Marks)**



### SECTION – C

Write short essays on **any three** of the following. The question carries **7** marks.

26. Mention the application of systematics in biology.
27. Describe the importance of DNA barcoding and barcoding of life.
28. Write a note on molecular clock.
29. Outline the origin of prokaryotic and eukaryotic genomes.
30. How the brain evolved for language?

**(3 × 7 = 21 Marks)**

### SECTION – D

Write an essay on **any one** of the following. The question carries **10 marks**

31. Discuss in detail the species concept and their categories.
32. Explain the role of endocrine system and their hormones in reference to evolution.

**(1 × 10 = 10 Marks)**

