

16P116

(Pages:2)

Name:

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(Regular/Supplementary/Improvement)

(CUCSS-PG)

CC15P ZO1 C03 – SYSTEMATICS AND EVOLUTION

(Zoology)

(2015 Admission Onwards)

Time: Three Hours

Maximum: 36 Weightage

I Short answers (Answer all 14 questions. Each question carries 1 weightage)

1. Numerical taxonomy.
2. Law of priority.
3. Typological classification.
4. Synonym.
5. Gamma taxonomy.
6. Curation.
7. Taxonomic characters.
8. Homo neanderthalensis.
9. Good genes hypothesis.
10. Neutral theory of molecular evolution.
11. Parsimony analysis.
12. Peripatric speciation.
13. Founder principle.
14. Y – Chromosomal Adam.

II. Short essay (Answer any 7 questions (7×2=14 weightage))

15. Describe the various Taxonomic characters.
16. Write on the role of DNA bar-coding in modern taxonomy.
17. Explain Taxonomic impediments.
18. What are the different types of taxonomic publication?
19. Briefly explain different types in descriptive taxonomy.
20. Explain homoplasy.
21. Describe the isolating mechanism and its role in speciation.

22. Explain stabilizing selection.
23. Explain collapse of Orthogenesis.
24. Hardy-Weinberg equilibrium.

III. Long essay (Answer any 2 questions (2×4=8 weightage))

25. Explain International Code of Zoological Nomenclature.
26. Explain different species concepts
27. Wet and dry nosed primates: evolutionary importance.
28. Describe co-evolution with suitable example.
