

15P116

Name:

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXTERNAL EXAMINATION, FEBRUARY 2016
(2015 Admission)

CC15P ZO1 C03 – **Systematics & Evolution** (Zoology)

Time: 3hrs

Total weightage: 36

I. Attempt all the fourteen questions given below (14x1= 14 Weightage)

1. Alpha taxonomy
2. Use of classification
3. Essentialism
4. Importance of collection
5. Nominalistic species concept
6. *Nomen nudum*
7. Infra species categories
8. Parallel evolution
9. Intrasexual selection
10. Homoplasy
11. African Apes
12. Mitochondrial eve
13. Founder principle
14. Hardy-Weinberg principle

II Answer any seven of the following (7x2= 14 Weightage)

15. Comment on applications of taxonomy in biodiversity conservation and agriculture
16. Differentiate between Synonym and homonym with examples
17. What is meant by Curation
18. Write a short note on International code of Zoological nomenclature
19. What are the different types in taxonomy
20. Differentiate between convergent and divergent evolution
21. Comment on importance of DNA bar coding in modern taxonomy
22. Explain the Evolutionary trends of communication, speech and language in primates
23. Describe biochemical evolution
24. Comment on natural theory of molecular evolution

III. Answer any two questions (2x4= 8 Weightage)

25. Describe taxonomic impediments
26. Explain the Ethics related to taxonomy
27. Write an essay on isolating mechanisms and its role in speciation
28. Explain different stages in primate evolution
