

Reg. No..... Name:

M SC DEGREE END SEMESTER EXAMINATION 2014 -15

SEMESTER -1: SUBJECT-ZOOLOGY

COURSE : CODE: P1ZOOT02 - EVOLUTIONARY BIOLOGY AND ETHOLOGY

Time: 3 Hours

Max. Marks: 75

Part A

Answer **any 8** Questions.

1. What is endosymbiotic theory?
2. Punctuated equilibrium
3. What is sexual imprinting ?
4. Give a brief account of Social organization in insects.
5. Comment on Radiometric dating.
6. What is acclimatization?
7. Write short notes on Index fossils.
8. Describe the qualities and features of social organization.
9. Explain Circadian rhythms.
10. List out the five major mass extinction events.
11. Comment on phagotrophic hypothesis
12. Write short notes on contribution of Wallace and Darwin to evolutionary concept

8 x 2= 16

Part B

Answer **any 7** Questions.

13. Explain Y chromosomal Adam
14. Distinguish between *Macro* evolution and Micro evolution
15. Explain Orientation and Kinesis with examples.
16. Describe Instrumental conditioning.
17. Discuss the Evolution of sex.
18. Explain Neutral theory of molecular evolution.
19. Describe the Migration in birds
20. Explain Altruism
21. Explain the relationship of Eukaryotes with Archaea and Bacteria.
22. Describe Pre-mating isolating mechanisms.

7 x 5 = 35

Part C

Answer **any 2** Questions.

23. Describe origin of photosynthesis and aerobic metabolism

24. Describe the stages in Primate evolution
25. Explain motivation with suitable examples.
26. Describe the communication in animals.

2 x 12 = 24