

Reg. No.....

Name :

MSC DEGREE END SEMESTER EXAMINATIONS – NOVEMBER 2015

SEMESTER- 1, SUBJECT: ZOOLOGY

COURSE: P1ZOOT02 -EVOLUTIONARY BIOLOGY AND ETHOLOGY

(Regular, Supplementary / Improvement)

Time: Three Hours

Max. Marks: 75

Part A

(Answer any 8 Questions. Each carries 2 marks)

1. Provide a note about the criticism against Darwin theory of Natural selection
2. Explain dominant and recessive mutations
3. Note about the contributions of Wallace and Darwin to evolution
4. What is Archaeobacteria?
5. Geological time scale
6. Anthropocene
7. Genotype frequency
8. Evolution of human brain
9. Brief note about different types of kineses.
10. Brief note about Pheromonal communication in Ants
11. Explain the association with young hypothesis of parental care.
12. What is tidal rhythm? (2 x 8 = 16)

Part B

(Answer any 7 Questions. Each carries 5 marks)

13. Explain Symbiogenesis.
14. Explain the origin of eukaryotic cells.
15. Describe different kinds of heterochrony
16. Brief note about Neanderthal man.
17. Mitochondrial Eve
18. Hunter- gatherer societies
19. Give examples of behaviors controlled by hormones
20. Explain instrumental conditioning.

21. Describe fish migration .

22. What is the difference between adaptation, acclimation and acclimatization?-

(5 x 7 = 35)

Part C

(Answer any 2 questions. Each carries 12 marks)

22. Differentiate Punctuated equilibrium and Gradualism.

23. Describe Co-evolution.

24. Describe Lorenz's Psycho-hydrologic model of motivation.

25. Write an essay on social organization of primates?

(12 x 2 = 24)
