

ACTIVITY ID: 1903232021
B.Sc. 6th Semester (Honours) Examination, October 2020
ZOOLOGY

Course ID: 62612

Course Code: SH/ZOO/602/C-14

Course Title: Evolutionary Biology

Full Marks: 15

Time: 1 Hr

The figures in the right hand margin indicate full marks.
Candidates are required to give their answers in their own words.

UNIT I

1. Answer *any five* questions: (1x5=5)

- a) Distinguish between micro evolution and macro evolution?
- b) What do you mean by living fossils? Give example.
- c) What are Darwin finches?
- d) Distinguish between gene frequency and genotypic frequency?
- e) What do you mean by K –selection and r-selection?
- f) What do you mean by punctured equilibrium?
- g) What is selection pressure?
- h) What is KT boundary?
- i) What is the “age of Fishes “and “age of Reptiles”?
- j) What do you mean by mass extinction?

UNIT II

2. Answer *any two* of the following questions: (5 x 2=10)

- a) What is out of Africa model” of Human evolution? How does it differ from ‘Multiregional hypothesis “of origin of man? (2+3=5)
- b) Discuss the factors that can alter Hardy-Weinberg equilibrium. What is gene pool? (3+2=5)
- c) What do you mean by parapatric speciation? Describe founder effect and bottle-neck effect with suitable diagram. (1+2+2=5)
- d) What is genetic drift? Explain the role of genetic drift in evolution. (2 + 3=5)

Signature of Moderators _____

Date _____

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