

U.G. 6th Semester Examination - 2021

ZOOLOGY

[HONOURS]

Course Code : ZOOL-H-CC-P-14

[PRACTICAL]

(Evolutionary Biology)

Full Marks : 20

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Write down the process of formation of a fossil.
What are the major types of fossils seen?

6+4=10

OR

2. "Define and differentiate between homology and analogy. Point out the similarities among forelimbs of whales, horses, cats and humans with labelled diagram.

2+2+(4+2)=10

OR

3. In a population of 140,000 mice, grey fur is dominant over black. If there are 400 greymice in a population of 140,000, find the following (assume population is in Hardy-Weinberg equilibrium):
- Frequency of dominant (grey) allele
 - Frequency of recessive (black) allele
 - Frequency of homozygous dominant, heterozygous and homozygous recessive genotypes. 10
4. Submission of Laboratory Notebook. 5
5. Viva voce. 5