

B.Sc. 6th Semester (Honours) Examination, 2021

Subject: ZOOLOGY

Course ID: 62612

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

Course Title: Evolutionary Biology

Full Marks: 25

Time: 1 Hr 15Min.

*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) What is convergent evolution?
- (b) What do you mean by bipedalism?
- (c) What is bottleneck phenomenon?
- (d) Write one human like and one ape like character of Australopithecus.
- (e) What is isolating theory?
- (f) Distinguish between browser and grazer.
- (g) What is gene pool?
- (h) What is primordial soup?

UNIT-II

2. Answer any two questions:

5x2=10

- (a) Write short notes on – Founders effect and Bottle neck effect 2.5+2.5=5
- (b) Define Hardy-Weinberg Equilibrium? On what factors does it depend? 2+3=5
- (c) What is genetic diversity? Briefly describe the four processes by which the genetic diversity always changing. 1+4=5
- (d) Define biological species? Why biological species concept is more accepted than Typological species concept. State the limitations of biological species concept. 1+2+2=5

UNIT-III

3. *Answer any one question:*

10x1=10

- (a) Trace and trend in the human evolution with particular reference to recent fossil records. 10
- (b) What do you mean by Geological Time Scale? State the importance of it. Prepare a geological table mentioning the time scale (in million years) in different units and also mention the major events those took place during those periods. (2+1)+4+3=10
