

19U516S

(Pages: 2)

Name:

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(CUCBCSS-UG)

CC15U ZO5 B07 - ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY

(Zoology - Core Course)

(2015 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

A. Answer *all* questions. Each question carries 1 mark.

1. What is Hibernation?
2. Define genetic drift.
3. Name the largest biogeographic region of India.
4. What is 'Cambrian Explosion'?
5. What is Klinotaxis?
6. What is an engram?
7. What is Polygamy?
8. Who is regarded as the father of Biogeography?
9. Which *period* in geological time scale witnessed the origin of placental mammals?
10. What is the importance of 'endosymbiotic hypothesis' in evolution?

(10 × 1 = 10 Marks)

B. Answer any *ten* questions in two or three sentences each. Each question carries 2 marks:

11. Describe punctuated equilibrium.
12. State any two features of motivated behavior.
13. Evolution of agnathans.
14. What are the major factors affecting animal distribution?
15. Write any four cardinal points of Lamarckism.
16. Comment on the faunal characteristics of oceanic islands.
17. What are 'living fossils'? Mention their evolutionary significance.
18. Describe basic features of society.
19. Comment on co-acervation.
20. What are analogous organs? How do they support evolutionary studies?
21. List the various factors that determine the composition of insular fauna.
22. List the key features of *Homo erectus*.

(10 × 2 = 20 Marks)

C. Answer any *five* questions in a paragraph each. Each question carries 6 marks.

23. Explain phases of motivation.
24. Elaborate on types of speciation.
25. With the help of suitable example explain instincts.
26. Explain isolation and isolating mechanisms.
27. Explain adaptive radiation with suitable examples.
28. Discuss the various factors that upset Hardy – Weinberg equilibrium.
29. Explain the faunal characteristics of Australian and Oriental realms.
30. Give a brief overview of 'Biological rhythms'

(5 × 6 = 30 Marks)

D. Write essay on any *two* of the following. Each question carries 10 marks.

31. Discuss the various kinds of animal distribution.
32. Explain evidences for organic evolution.
33. Elaborate the concepts of Oparin – Haldane Theory.
34. Write an essay on ' Chemical communication in animals'

(2 × 10 = 20 Marks)
