

18U516

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Name:

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CUCBCSS-UG)

(Regular/Supplementary/Improvement)

CC15U ZO5 B07 - ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY

(Zoology - Core Course)

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

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

1. What is 'diapause'?
2. Define genetic drift.
3. Name the largest biogeographic region of India.
4. What is 'Cambrian Explosion'?
5. Name an animal with bipolar distribution.
6. What is an engram?
7. What is the importance of 'endosymbiotic hypothesis' in evolution?
8. Which *period* in geological time scale witnessed the origin of placental mammals?
9. The behind life from outer space is known as _____
10. Who is regarded as the father of Biogeography?

(10 x 1 = 10 Marks)

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

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

(10 x 2 = 20 Marks)

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

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

(5 x 6 = 30 Marks)

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

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

(2 x 10 = 20 Marks)
