

## 2022/TDC (CBCS)/EVEN/SEM/ ZOOHCC-602T/094

TDC (CBCS) Even Semester Exam., 2022

ZOOLOGY

( Honours ) Delorg at Jerly

(6th Semester) 200 a outw

Course No.: ZOOHCC-602T

( Evolutionary Biology )

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

11. Briefly discuss inter-population-warianon.

## SECTION—A

Answer any ten of the following questions:  $2\times10=20$ 

- 1. Write a brief note on the theory of chemogenesis.
- 2. What is the significance of coacervates?
- 3. Discuss the Urey-Miller experiments as the proof of prebiotic synthesis of organic molecules.

22J/1305

(Turn Over)



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- 4. What do you mean by analogous organs?
  Give examples.
- 5. What is molecular clock concept?
- 6. Write a note on transitional forms.
- 7. State the conditions for Hardy-Weinberg equilibrium.
- 8. Name the factors responsible for genetic variability in a population.
- 9. What is population bottleneck?
- 10. What is cline? him intranim will in sample aff
- 11. Briefly discuss inter-population variation.
- 12. What is allopatric speciation?
- 13. Write a brief note on physical characteristics of Dryopithecus. The stem term a survey of the stem term a survey of the stem term and the stem terms and the stem terms are stemptions.
- 14. What do you mean by convergent and divergent evolution?
- 15. What is the difference between Homo sapiens and Homo erectus?

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(Continued)

(3)

33. Where is the Hammasisland situated?
Name the major Islands which contains the

Answer any five of the following questions (11.6×5=30

- **16.** Discuss in detail the evolution of eukaryotes with necessary illustrations.
- 17. Who are the supporters of neo-Darwinism?

  Describe some recent experiments put forward to support the natural selection theory. It may be a selected to support the natural selection theory. It may be a selected to support the natural selection theory. It may be a selected to support the natural selection theory. It may be a selected to support the natural selection theory. It may be a selected to support the natural selection theory. It may be a selected to support the natural selection theory.
- **18.** Discuss the evolution of horse with suitable illustrations.
- 19. Define variation. What are its different types?

  Describe how germinal variation effects organisms with example.

  1+2+3=6
- Discuss the role of migration and mutation in changing allele frequency.
- 21. What is genetic drift? Discuss the founder effect and bottleneck effect with suitable illustrations.
- 22. What is isolating mechanism? Describe how many ways are there in which free interbreeding may be interfered. 2+4=6

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## (4)

Name the major islands which constitute the Galapagos island. Describe them giving emphasis on Darwin finches and mammals.

Accordance to nothing and investigation of 1+2+3=6

- 24. Which trait differentiates hominids from other primates? Discuss in brief the origin and evolution of man. 2+4=6
- 25. Write a detailed note on construction of phylogenetic trees and their interpretations.

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