

(6 pages)

Reg. No. :

Code No. : 20586 E Sub. Code : CMZO 61

B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2024.

Sixth Semester

Zoology — Core

EVOLUTION

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. The swan necked flask experiment by Louis Pasteur supports
(a) Biogenesis (b) Special creation
(c) Abiogenesis (d) None of these
2. The structures which are similar in morphology but different function are
(a) Analogous (b) Paralogous
(c) Homologous (d) None of these

7. The movement of organisms from one place to another place is called as
(a) Biography
(b) Biogeography
(c) Dispersal
(d) Exotic species
8. The study of geographic distribution of plants, animals and other forms of life is
(a) Geography (b) Ecology
(c) Dispersal (d) Biogeography
9. The connecting link between reptiles and birds is
(a) Chameleon (b) Dinosaur
(c) Archeopteryx (d) None of these
10. According to fossil evidence the origin of man is started from which country?
(a) India (b) China
(c) Pakistan (d) Africa

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3. The idea of use and disuse of organs was given by
(a) Darwin (b) De Vries
(c) Lamark (d) None of them
4. Mammals and Marsupials share many similar characters and this type of evolution is
(a) Adaptive radiation
(b) Divergent evolution
(c) Convergent evolution
(d) None of these
5. This is the vestigial organ found in the body
(a) Teeth (b) Eye brow
(c) Intestine (d) Coccyx
6. The wing of bats and the butterfly are the examples of
(a) Adaptive radiation
(b) Analogous organs
(c) Homologous organs
(d) None of them

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PART B — (5 × 5 = 25 marks)

Answer ALL questions by choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write short note on biochemical origin of life.
Or
(b) Explain about the paleontological evidences of evolution.
12. (a) Give a brief explanation about Neo Darwinism.
Or
(b) Write short note on natural selection.
13. (a) Discuss about different types of mimicry and their significance.
Or
(b) Write short note on the significance of genetic drift on evolution.
14. (a) Discuss briefly about any two geographical regions of the world.
Or
(b) Give a short note on Carbon dating.

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15. (a) Why Archaeopteryx is called as connecting link between birds and reptiles?

Or

- (b) Write a brief account about Homo habilis.

PART C — (5 × 8 = 40 marks)

Answer ALL questions by choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Discuss about the evidences of evolution.

Or

- (b) Discuss about experiments that prove the biochemical origin of life.

17. (a) Give a detail explanation about the theories of organic evolution.

Or

- (b) Discuss about analogous and homologous organs with real diagrams.

18. (a) Discuss about the significance of Hardy-Weinberg equilibrium.

Or

- (b) Explain about the molecular evolution and its significance.

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19. (a) Write a detail description about the world zoogeographical regions.

Or

- (b) Write about the discontinuous distribution of animals and continental drift.

20. (a) Explain in detail about the evolutionary significance of Dipnoi.

Or

- (b) Discuss about major types of Dinosaurs and the reason for their extinction.

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