

(6 pages)

Reg. No. : .....

Code No. : 30387 E Sub. Code : CMZO 61

B.Sc. (CBCS) DEGREE EXAMINATION,  
APRIL 2025.

Sixth Semester

Zoology – Core

EVOLUTION

(For those who joined in July 2021 and 2022 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The theory about origin of life from non-living thing is called
- (a) Biogenesis                      (b) Special creation  
(c) Abiogenesis                      (d) Autogenesis

2. The scientist who performed swan-necked flask experiment and rejected spontaneous origin of life was.
- (a) Aristotle                      (b) Lamark  
(c) Urey Miller                      (d) Louis Pasteur
3. The idea of use and disuse of organs was given by
- (a) Drawin                      (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
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

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Give a brief account on anatomical evidences of evolution.  
Or  
(b) Write short note about the theory of biogenesis.
12. (a) Discuss briefly about Neo Lamarckism.  
Or  
(b) Explain about the salient features of modern synthetic theory of evolution.
13. (a) Briefly discuss about neoteny and its significance.  
Or  
(b) Write short note on molecular evolution.
14. (a) Give a brief account on Wallace line  
Or  
(b) Discuss about the outcome of continental drift.

15. (a) Write about the evolutionary significance of Dipnoi.

Or

- (b) Discuss about the reasons for the extinction of Dinosaurs.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write a detail description about Urey-Miller experiment.

Or

- (b) Give and account on morphological, anatomical and embryological evidences of evolution.

17. (a) Discuss about the Darwinism and Neo Darwinism with examples.

Or

- (b) Elucidate convergent and divergent evolution withy examples.

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18. (a) Explain in detail about different types of reproductive isolating mechanisms and species concept.

Or

- (b) Describe about the zoogeographical regions of the world.

19. (a) Write a detail description about the geological time scale.

Or

- (b) Discuss about the salient features of Hardy-Weinberg equilibrium.

20. (a) Mesozoic era is a golden of reptiles. Why? And how the mass extinction of reptiles happened?

Or

- (b) Discuss about the evolutionary of humans.

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