Avinashilingam Institute for Home Science and higher Education for Women
(Deemed to be University) Coimbatore-641 043

Master's Degree Examination - November 2018
Semester III

Class: II PG **Time: 3 Hrs**
Major: Zoology **Max.Marks:60**

17MZOC17-EVOLUTION

Part-A **(10×1/2=5)**

Circle the correct answer

1. Preformation theory was proposed by.
   (a) Wolff (b) Malphigi (c) Von Baer (d) Aristotle

2. An example for disuse theory of Lamark.
   (a) Web-foot (b) Neck of giraffe (c) Biceps muscles (d) Eye of proteus

3. Which among the following is an example for pre-zygotic isolation
   (a) Seasonal isolation (b) Zygotic mortality (c) Hybrid in viability (d) Hybrid sterility

4. L-Chain of heamoglobin contains.....amino acids
   (a) 140 (b) 141 (c) 142 (d) 144

5. Leaf insect phyllium mimics dead leaves is.
   (a) Protective mimicry (b) Warming mimicry
   (c) Aggressive mimicry (d) Batessian mimicry

6. Origin of new population from an old one is.
   (a) Convergent evolution (b) Divergent evolution
   (c) Co-evolution (d) Quartum evolution

7. Golden age of reptiles.
   (a) Palaeozoic era (b) Mesozoic era (c) Archeozoic era (d) Cerozoic era

8. An example for missing link is.
   (a) Seymouria (b) Ichthyostega (c) Archeopteryx (d) Peripatus

9. Homo habilis is.
   (a) Solo man (b) Pecking man (c) Handy man (d) Java man

10. Place of evolution of man is.
    (a) East Africa (b) South Africa (c) North America (d) South America

Part-B (5×4=20)

Answer the following

Answer should not exceed 200 words or two pages

11. a. Write a brief account on Theory of biogenesis.

(Or)

b. "Lamarckism is evergreen superstition"- Substantiate.

12. a. Discuss the role of genetic drift as one of the evolutionary force.

(Or)

b. Briefly explain the evolution of cytochrome 'C'.

13. a. Write is convergent evolution? State its salient features.

(Or)

b. Write short notes on structural adaptation.

14. a. Describe the methods adopted in dating of fossils.

(Or)

b. Write a brief account on Atavism.

15. a. Analyze the trends in human evolution.

(Or)

b. Discuss the future evolution of man.

Part-C (5×7=35)

Answer the following

Answer should not exceed 600 words or 3 pages

16. a. Explain the biochemical origin of life.

(Or)

b. Describe the main compounds of Darwinism.

17. a. Discuss the Simpsons adaptive grid concept.

(Or)

b. Scrutinize the different types of pre-zygotic isolating mechanisms.

18. a. Narrate the animal association adaptations.

(Or)

b. Illustrate the different type's mimicry and its significance.

19. a. Examine the geological time scale with their features.

(Or)

b. Discuss the different types of fossils with example.

20. a. Enlist and explain the uniqueness of man.

(Or)

b. Describe the fossil history and phylogeny of man.