



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – July 2020
IV Semester

Class : II UG
Major : Zoology

Time : 3 Hours
Max. Marks: 100

18BZOC11 Evolution

PART –A

Choose the Correct Answer

10×1= 10

1. Theory of natural selection was proposed by
 - a. Aristototele
 - b. Xenopnanes
 - c. Empedocles
 - d. Thales
2. Respiratory pigment in Eukaryotic cells
 - a. Hemoglobin
 - b. Cytochrome
 - c. Hemocyanin
 - d. Hemoerythrin
3. Inheritance of characters from parents to offspring is known as
 - a. Theory of natural selection
 - b. Theory of population
 - c. Mutation theory
 - d. Theory of pangenesis
4. Sudden changes in the function of gene is called as
 - a. Point mutations
 - b. Gametic mutations
 - c. Chromosomal mutations
 - d. Zygotic mutations
5. Phenylketonuria disorder is caused by
 - a. Lethal mutation
 - b. Biochemical mutation
 - c. Detrimental mutation
 - d. Micromutation
6. Post mating mechanism involves
 - a. Geographic isolation
 - b. Habitat isolation
 - c. Zygotic mortality
 - d. Both a and b
7. Explosive type of evolution
 - a. Parapatric speciation
 - b. Allopatric speciation
 - c. Geographical evolution
 - d. Sympatric speciation
8. Movement of alleles between populations is called as
 - a. Immigration
 - b. Gene flow
 - c. Gene drift
 - d. Hereditary
9. Histometabasis is used to preserve
 - a. Plant fossils
 - b. Casts and moulds
 - c. Finer parts
 - d. Hard parts
10. Dental arch of man is
 - a. Probolic
 - b. Hyperbolic
 - c. Omega
 - d. Ellipsoidal

Part- B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

11. a. Describe Darwin's theory of natural selection.
(or)
11. b. Describe the physiological evidences for evolution.
12. a. Explain the survival of fittest and origin of species.
(or)
12. b. State the evidences for Darwinism.
13. a. Illustrate about ethological isolation.
(or)
13. b. Discuss about the theories of speciation .
14. a. Describe about allometry.
(or)
14. b. Give an account on Living fossils.
15. a. Explain the cultural evolution in man.
(or)
15. b. Comment on genomic changes in human evolution.

Part - C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

16. a. Explain the chemical origin of life.
(or)
16. b. Briefly discuss the morphological and anatomical evidences for evolution.
17. a. Analyze the theory of inheritance in brief.
(or)
17. b. Classify the kind of mutations on its different basis.
18. a. Explain the isolation of pre-mating mechanism.
(or)
18. b. Describe about allopatric speciation.
19. a. Write an essay on dating of fossils and significance of fossil record.
(or)
19. b. Summarize the different types of fossilisation.
20. a. Criticize the morphological similarities and differences between man and apes.
(or)
20. b. Write a brief note on monophyletic and polyphyletic origin of man.
