

2020

Time : 3 hours

Full Marks : 100

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer five questions selecting two from each Group in which Q. No. 1 is compulsory.

1. Choose the correct answer from the option given below : 1×20 = 20
- (a) Lung fishes and amphibians originated during :
- (i) Devonian
 - (ii) Silurian
 - (iii) Permian
 - (iv) None of these

- (b) Charles Darwin toured in a ship for 5 yrs, it was :
- (i) Vikrant
 - (ii) Philip
 - (iii) Beagle
 - (iv) Alexander
- (c) The name of Lorenz and Tinbergen are associated with :
- (i) Ecology
 - (ii) Embryology
 - (iii) Ethology
 - (iv) Cytology
- (d) Age of fossils is calculated by calculating the age of rock with the help of :
- (i) Chemical analysis
 - (ii) Carbon dating
 - (iii) Liquid nitrogen
 - (iv) None of these
- (e) The origin of species is written by Darwin in :
- (i) 1809

- (ii) 1859
 - (iii) 1885
 - (iv) 1869
- (f) The survival of fittest and struggle for existence is related to :
- (i) Oparin theory
 - (ii) Darwinism
 - (iii) Lamarckism
 - (iv) None of these
- (g) A species inhabiting in different geographical areas is known as :
- (i) Allopatric
 - (ii) Sympatric
 - (iii) Priospecies
 - (iv) Sibling species
- (h) Dinosaurs became extinct during :
- (i) Triassic period
 - (ii) Jurassic period
 - (iii) Cretaceous period
 - (iv) Permian period

- (i) Which one is not a fish behaviour ?
- (i) Migration
 - (ii) Schooling
 - (iii) Swarming
 - (iv) Waggle dance
- (j) Which one is not social insect ?
- (i) Honey bee
 - (ii) Ants
 - (iii) Butterfly
 - (iv) Termites
- (k) The change of behaviour by life experience is called :
- (i) Instinct
 - (ii) Learning
 - (iii) Imprinting
 - (iv) Maturation
- (l) Minor changes at gene level are also described as :
- (i) Point Mutation
 - (ii) Chromosome Mutation

- (iii) Reverse Mutation
- (iv) None of these
- (m) The modern synthetic theory of evolution is also known as :
 - (i) Neo-Lamarckism
 - (ii) Neo-Darwinism
 - (iii) Both (i) and (ii)
 - (iv) None of these
- (n) Which of the following regards as age of reptiles ?
 - (i) Palaeozoic
 - (ii) Mesozoic
 - (iii) Coenozoic
 - (iv) None of these
- (o) Tetrapod originated during :
 - (i) Palaeozoic era
 - (ii) Mesozoic era
 - (iii) Coenozoic era
 - (iv) None of these

- (p) Which of the following is most important for speciation ?
 - (i) Seasonal Isolation
 - (ii) Reproductive Isolation
 - (iii) Tropical Isolation
 - (iv) Behavioural Isolation
- (q) The extinct representative of the present day living man is :
 - (i) Java Man
 - (ii) Neanderthal Man
 - (iii) Cro-Magnon Man
 - (iv) Erect Man
- (r) In Phylogenetic study of horse, the earliest fossil is :
 - (i) Eohippus
 - (ii) Mesohippus
 - (iii) Equus
 - (iv) Merychippus
- (s) The site defend by territorial animal by a behaviour is :
 - (i) Hierarchy

- (ii) Altruism
- (iii) Agnostic
- (iv) Territorial
- (t) Palaeozoic era does not include :
 - (i) Cambrian period
 - (ii) Ordovician Period
 - (iii) Triassic Period
 - (iv) Silurian Period

Group – A

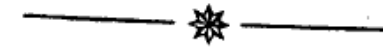
- 2. Describe the boundary, climatic condition and faunistic peculiarities of Ethiopian region. 20
- 3. Give an account of fossil history of horse. 20
- 4. Describe the various theories pertaining to animal distribution. 20
- 5. Describe the age, duration and characteristics fauna of paleozoic era. 20

Group – B

- 6. Write an essay on Neo-Darwinism. 20
- 7. Give an account of different types of innate behaviour with example. 20

UO – 114/4 (7) (Turn over)

- 8. Discuss the different isolating mechanism and their role in evolution. 20
- 9. Define the biological clock. Describe the various external factors that Control Biological Clock. 5+15 = 20



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