

DPP

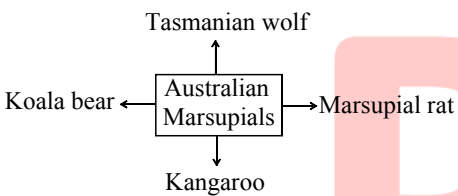
DAILY PRACTICE PROBLEMS

Class : XIIth
Date :

Subject : BIOLOGY
DPP No. : 1

Topic :- Evolution

- The force responsible for fixing in population of neutral characteristics is
 - Genetic drift
 - Mutation
 - Reproduction
 - Genetic recombination
- Mutation is more common when it is present in
 - Recessive condition
 - Dominant condition
 - Constant in population
 - None of these
- Choose the correct statements
 - Law of embryonic development was given by Von Baer
 - Recapitulation theory was proposed by Haeckel
 - Haeckel theory states that 'Ontogeny repeats phylogeny'
 - Haeckel theory and biogenetic law were proposed by the same personThe correct combination is
 - I and II
 - II and III
 - III and I
 - I, II, III and IV
- 'Every cell of the body contributes gemmules to the germ cells and so shares in the transmission of inherited characters', this theory is known as
 - Theory of inheritance of acquired characters
 - Theory of germplasm
 - Theory of pangenesis
 - Theory of mutation
- Synthetic theory of evolution was developed by
 - Several biological specialities
 - Darwin
 - Mendel
 - Wallace
- Natural indicator of industrial pollution is
 - Algae
 - Fungi
 - Lichen
 - Bacteria
- Lamarckism cannot explain
 - Webbed toes in aquatic birds
 - Weak muscles in the son of a wrestler
 - Long narrow and limbless body of snakes
 - Heterophylly

8. Arrange the periods of Palaeozoic era in ascending order in a geological time scale.
- Cambrian –Ordovician –Silurian –Devonian –Carboniferous -Permian
 - Cambrian – Devonian – Ordovician – Silurian –Carboniferous -Permian
 - Cambrian –Ordovician – Devonian – Silurian –Carboniferous -Permian
 - Silurian – Devonian – Cambrian – Ordovician – Permian – Carboniferous
9. What is common to whale, seal and shark?
- Seasonal migration
 - Thick subcutaneous fat
 - Convergent evolution
 - Homeothermy
10. Give the name of the first organism who invaded land
- Plants
 - Consumers
 - Animal
 - Carnivores
11. Hardy-Weinberg principle can be expressed as
- $p^2 + 3pq + q^2 = 1$
 - $p^2 + 2pq + q^2 \geq 1$
 - $p^2 + 2pq + q^2 \leq 1$
 - $p^2 + 2pq + q^2 = 1$
12. Identify what the given diagram indicates
- 
- Convergent evolution
 - Divergent evolution
 - Recapitulation
 - Parallel evolution
13. Speciation is the evolutionary process by which
- A new gene pool is formed
 - Evolutionary paths of the species converge
 - Hybrids species are formed
 - Differences in physical traits appears
14. First human like hominid is known as
- Neanderthal man
 - Homo habilis*
 - Dryopithecus*
 - Homo erectus*
15. 'Darwin's finches' refers to
- Fossils of birds collected by Darwin at Galapagos islands
 - A type of birds present on Galapagos islands
 - Migratory birds collected by Darwin at Galapagos islands
 - Fossils of reptiles collected by Darwin at Galapagos islands

16. Age of fossils in the past was generally determined by radio-carbon method and other methods involving radioactive elements found in the rocks. More precise methods, which were used recently and led to the revision of the evolutionary period for different groups of organisms, include
- a) Study of carbohydrates/ proteins in fossils
 - b) Study of conditions of fossilization
 - c) Electron spin resonance (ESR) and fossil DNA
 - d) Study of carbohydrates/proteins in rocks
17. Which of the following is not vestigial in man?
- a) Tail vertebrae
 - b) Nails
 - c) Nictitating membrane
 - d) Vermiform appendix
18. Survival of the fittest is possible due to
- a) Over production
 - b) Favourable variation
 - c) Environmental change
 - d) Inheritance of acquired characters
19. Which of the following branch of biology helps in to know the existence of coal?
- a) Palaeobotany
 - b) Bacteriology
 - c) Economic botany
 - d) Ecology
20. Which of the following factor is most likely to decrease the genetic diversity in a population?
- a) Genetic recombination
 - b) Mutation
 - c) Genetic drift
 - d) Stabilizing natural selection

