DPP
DAILY PRACTICE PROBLEMS

Class : XIIth **Subject : BIOLOGY**
Date : **DPP No. : 2**

Topic :- Evolution

1. The first cellular form of life could have originated
   a) 2000 million years back b) 11000 million years back
   c) 1500 million years back d) 500 million years back

2. Origin of life as a result of chemical evolution has been properly explained by or the most logical biochemical theory of origin of life has been given by
   a) Stanley Miller b) Darwin c) A I Oparin d) S Fox

3. The structural similarities between the flippers of whales and the arms of human are used to show that
   a) Human species began life in the oceans
   b) Human species and whales have a common ancestry
   c) Whales are older than the human species
   d) Whales evolved from the human species

4. Fossil X is older than fossil Y if
   a) X was found deeper in sediment than Y
   b) Y was found deeper in sediment than X
   c) Y had less vestigial organs
   d) Fossil Y had a homologous and analogous organs of X

5. I. Oparin's theory of origin of life is based on ...A...
   II. Chemical theory of origin of life was given by ...B...
   Choose the correct option for A and B to complete the statements I and II
   a) A-biological evolution; B-Oparin b) A-elemental evolution; B-Haldane
   c) A-organic evolution; B-Oparin and Haldane d) A-chemical evolution; B-Oparin and Haldane

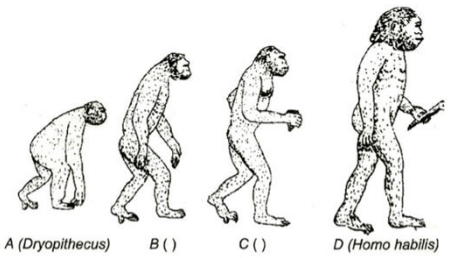
6. The concept of natural selection in evolution was proposed by
   a) Charles Robert Darwin b) August Weismann
   c) Hugo de Vries d) Jean Baptiste Lamarck

7. Darwin proposed that new species evolve from ancestral forms by the
   a) Gradual accumulation of adaptations to changing environment
   b) Inheritance of acquried adaptation to the environment
   c) Struggle for limited resources d) Accumulation of mutations

8. Which of the following is not a correct pair?
   a) Mesozoic era - Age of mammals
   b) Origin of species - Charles Darwin
   c) Study of fossil – Palaeontology
   d) Mutation theory – Hugo de Vries

9. S L Miller's closed flask contained
   a) CH_4
   b) H_2
   c) NH_3 and H_2O
   d) All of these

10. Give the name of *B* and *C*



   a) B-*Ramaithecus*; C-*Homo erectus*
   b) B-Ramapithecus; C-*Australopithecus*
   c) B-*Australopithecus*; C-*Ramapithecus*
   d) B-*Australopithecus*; C-*Homo erectus*

11. The primate, which existed 15 million years ago, among these was
   a) *Homo habilis*
   b) *Australopithecus*
   c) *Ramapithecus*
   d) *Homo erectus*

12. Which type of growth living organism undergoes?
   a) Reversible
   b) Apical
   c) Accretion
   d) Intussusception

13. Directional selection favours
   a) One extreme from over the other extreme from over intermediate from of a trait
   b) Both extremist form of trait
   c) Environmental differences
   d) Intermediate form of a trait

14. What was the most significant trend in the evolution of modern man (*Homo sapiens*) from his ancestors?
   a) Shortening of jaws
   b) Binocular vision
   c) Increasing brain capacity
   d) Upright posture

15. For a long time it was believed that life came out of decaying and rotting matter like straw mud, etc. This was the theory of
   a) Catastrophism
   b) Abiogenesis
   c) Panspermia
   d) Chemogeny

16. In which of the following era first mammal like reptile originated?
   a) Permian period
   b) Triassic period
   c) Jurassic period
   d) Tertiary period

17. Darwin judged the fitness of an individual by
    a) Ability to defend itself
    b) Strategy to obtain food
    c) Number of offsprings
    d) Dominance over other individuals

18. In the theory of evolution, Lamarck explained
    I. internal vital force
    II. effect of environment on organisms
    III. inheritance of acquired characters
    IV. use and disuse of organs
    Choose the correct combination
    a) I and II
    b) II and III
    c) I, II and IV
    d) I, II, III and IV

19. Evolutionary development of a species can be studied by
    a) DNA analysis
    b) Finding age by carbon dating
    c) Studying fossils of the species
    d) All of the above

20. Phenomenon of industrial melanism demonstrates
    a) Reproductive isolation
    b) Induced mutation
    c) Natural selection
    d) Geographical isolation