

# DPP

DAILY PRACTICE PROBLEMS

Class : XII<sup>th</sup>

Date :

Subject : BIOLOGY

DPP No. : 6

## Topic :- Evolution

1. In which era, life was absent?  
 a) Archaeozoic                      b) Palaeozoic                      c) Proterozoic                      d) Azoic
  
2. The first cell like structure was appeared in  
 a) Air                                      b) Mountain                      c) Ocean                              d) Soil
  
3. Synthesis of amino acids to prove that amino acids were formed in primitive ocean was experimentally proved by  
 a) Sydney Fox                      b) Oparin                              c) Haldane                              d) Stanley Miller
  
4. Separate the following into homologous and analogous organs  
 I. Sweet potato  
 II. Potato  
 III. Filippers of penguins and dolphins  
 IV. Hearts of different vertebrate  
 V. Forelimbs of whales, bat and cheetah  
 The correct option is  

Homologous organs	Analogous organs		
a) I, II, III	IV, V	b) IV, V	I, II, III
c) I, II	III, IV, V	d) I, II, V	IV, III
  
5. *Echidna and Ornithorhynchus* are the connecting links between  
 a) Amphibians and aves                      b) Mammals and amphibians  
 c) Reptiles and mammals                      d) Reptiles and amphibians
  
6. Which one of the following is incorrect about the characteristics of protobionts (coacervates and microspheres) as envisaged in the abiogenic origin of life?  
 a) They were able to reproduce  
 b) They could separate combinations of molecules from the surroundings  
 c) They were partially isolated from the surroundings  
 d) They could maintain an internal environment

7. Find out wrong statement about *Homo habilis*
- I. Also called able or skilful man
  - II. Also called tool marker
  - III. Fossil discovered from fast Africa
  - IV. 500 cc
  - V. Have teeth likes modern man
  - VI. Lined 2 million years ago
- The correct choice is
- a) Only IV                      b) Only V                      c) Only II                      d) Only VI
8. I. Random selection  
II. Convergent evolution  
III. Genetic drift  
IV. Divergent evolution
- Choose the correct option for Sewell's effect from above option
- a) I and II                      b) III and IV                      c) Only III                      d) Only IV
9. Information molecule to get evolved first on the primitive earth was
- a) Protein                      b) DNA                      c) RNA                      d) All of these
10. The first mammals were like ...A... . Their fossils are small sized. Mammals were ...B... and protected their unborn young inside the mother's body
- Choose the correct option for A and B to complete the given NCERT statement
- a) A-shrews, B-viviparous  
b) A-monkeys, B-viviparous  
c) A-monkeys, B-oviparious  
d) A-shrews, B-oviparious
11. Ontogeny recapitulates phylogeny, this theory is called as
- a) Biogenetic law                      b) Law of embryology  
c) Law of acquired characters                      d) Law of bridges
12. Present concept of evolution is the result of the work by number of scientists
- I. T Dobzhansky      II. RA Fisher
  - III. JBS Haldane      IV. Charles Darwin
  - V. Sewall Wright      VI. Ernst Mayer
  - VII. Hugo de Vries      VIII. GL Stebbins      IX. Lamarck
- The scientists who contributed to the present concept of evolution are
- a) I, II, III, IV, V, VII, VIII      b) I, II, III, V, VII, VIII, IX      c) I, II, III, V, VI, VIII, IX      d) II, III, IV, V, VI, VII, IX

13. What is the supportive evidence for evolution from comparative embryology?
- All plant seeds look alike
  - All embryos arises by the union of egg and sperm
  - Different species have different embryos
  - Different species develops along the pattern set by their common ancestor
14. *Homo erectus* had large brain around ...A... cc. *Homo erectus* was probably ...B... . Here A and B refers to
- A-700 cc, B-carnivorous
  - A-700 cc, B-herbivorous
  - A-900 cc, B-omnivorous
  - A-800 cc, B-herbivorous

15. Identify the cranial capacity *A*, *B* and *C* of the given primates

Primates	Cranial capacities (in cubic centimetris)
1. Chimpanzee and gorilla	<i>A</i>
2. Australopithecus	500 cc
3. <i>Homo habilis</i>	<i>B</i>
4. Java ape man	800-1000 cc
5. Peking man	<i>C</i>

- A-325-500 cc, B-900 cc, C-800-1000 cc
  - A-325-510 cc B-700 cc, C-850-1200 cc
- A-325-510 cc, B-700 cc, C-850-1000 cc
  - A-325-510 cc B-700 cc, C-850-1400 cc
16. In plants like *Acacia*, the leaves are compound but their seedlings possess simple leaves. This phenomenon can be explained by
- Adaptive radiation concept by Darwin
  - Theory of inheritance of acquired characters by Lamarck
  - Recapitulation concept by von Baer
  - Mutation theory by de Vries
17. *Australopithecus* has been given the nick name Lucy by
- Edward Lewis
  - Donald Johanson
  - LSB Leaky
  - C Fuhlroti
18. Which of the following is not an example of evolutionary change?
- The dark form of many moth species has increased in areas with increased pollution
  - Penicillin resistant forms of bacteria have arisen, by the introduction of antibiotics
  - The last American eagle dies off, leading to the extinction of the species
  - All of the above
19. Darwin travelled in which of the following ship?
- H N S Eagle
  - D Matrica
  - H M S Beagle
  - Titanic
20. Flippers of seal are
- Modified forlimbs
  - Modified hindlimbs
  - Modified gill
  - Modified fins