



**TARGET : NEET (UG) 2024**

**Course : SARANSH (Youtube Live CRASH COURSE)**

**BIOLOGY**

**DPP**

**DAILY PRACTICE PROBLEMS**

**DPP NO. 1**

**ZOOLOGY: EVOLUTION**

**DPP No. : 1**

- Stanley Miller's experiment supports
  - Chemical theory
  - Abiogenesis
  - Biogenesis
  - Pangenesism
- The earliest gases of the primitive earth were
  - hydrogen and nitrogen only.
  - water vapour and carbon dioxide.
  - water vapour and hydrogen.
  - water vapour, methane, ammonia and hydrogen.
- In Miller's experiment, the raw materials were
  - H<sub>2</sub>O, HCN, H<sub>2</sub> and CH<sub>4</sub>
  - CH<sub>4</sub>, NH<sub>3</sub>, H<sub>2</sub> and H<sub>2</sub>O
  - CH<sub>4</sub>, HCN, N<sub>2</sub> and H<sub>2</sub>
  - CH<sub>4</sub>, H<sub>2</sub>O, N<sub>2</sub> and H<sub>2</sub>
- The first formed cells on the primordial earth were
  - autotrophic.
  - parasitic.
  - prokaryotic and heterotrophic.
  - prokaryotic and autotrophic.
- The idea of life arising out of nonliving things suddenly is known as
  - biogenesis.
  - genesis.
  - panspermia.
  - abiogenesis.
- Which was not present freely in the early atmosphere of the earth?
  - Water
  - Carbon monoxide
  - Hydrogen
  - Oxygen
- Complex organic compounds first evolved on earth and required for origin of life were
  - Urea and amino acids
  - Proteins and nucleic acids
  - Proteins and amino acids
  - Urea and nucleic acid
- There are many views about age of earth, according to scientifically accepted view, age of earth as on today is-
  - 200-300 million years
  - 2000-3000 million years
  - 400-460 million years
  - 4000-4600 million years
- Origin of life would have not been possible if-
  - Primitive atmosphere contained methane.
  - Primitive atmosphere contained oxygen.
  - Primitive atmosphere contained carbon dioxide.
  - Primitive atmosphere contained ammonia.



10. Which of the following is a true statement?  
 (1) The primitive atmosphere had 20% oxygen, just like it is today  
 (2) The reducing primitive atmosphere contributed to the origin of life and the oxidizing one today would hinder it  
 (3) The primitive atmosphere was an oxidizing one and today's is a reducing one, making photosynthesis possible  
 (4) It took so long for prokaryotic evolution because the primitive atmosphere screened out the ultraviolet radiation from the sun
11. In Miller and Harold Urey's experiment the ratio of  $\text{CH}_4$  &  $\text{NH}_3$  was  
 (1) 1 : 1                      (2) 2 : 1                      (3) 1 : 2                      (4) 2 : 2
12. Stanley Miller performed the first successful experiment to assess the validity of the claim for origin of organic molecules in the primeval earth condition. The control apparatus contained every arrangement except that it was devoid of  
 (1) Ammonia                      (2) Methane                      (3) Oxygen                      (4) Energy source
13. The finches of Galapagos islands are example of  
 (1) Adaptive radiation                      (2) Divergent evolution  
 (3) Founder effect                      (4) All of these
14. Various types of marsupials are found in Australia. This is an example of  
 (1) Divergent evolution                      (2) Convergent evolution  
 (3) Founder effect                      (4) Bergman's rule
15. The original stem finch on Galapagos Island was:  
 (1) Seed eating                      (2) Insect eating                      (3) Fruit eating                      (4) Flower probing
16. In England, dark coloured moths were observed more than its white variant :  
 (1) in cities before industrialization                      (2) in cities after industrialization  
 (3) in rural areas                      (4) in both (2) and (3)
17. Wolf and Tasmanian wolf is an example of—  
 (1) Convergent evolution  
 (2) Divergent evolution  
 (3) Co-evolution  
 (4) Retrogressive evolution
18. Homologous organs are the product of adaptive radiation or adaptive divergence, they have  
 (1) Dissimilar origin, common anatomical plan but always different function  
 (2) Similar origin, common anatomical plan but similar function  
 (3) Dissimilar origin, similar structure and similar function  
 (4) Similar origin, similar basic structural plan but generally dissimilar functions

19. Fill in the blanks:

- (1) Australian marsupials are example of .....1..... .  
 (2) .....2..... visited Galapagos Islands by the ship .....3..... .  
 (3) Sweet potato and potato are examples of .....4..... .

Select the option with correct answer is

	1	2	3	4
(1)	Parallelism	Charles Darwin	INS Beagle	Analogous organs
(2)	Adaptive radiation	Charles Darwin	HMS Beagle	Analogous organs
(3)	Adaptive radiation	Charles Darwin	HMS Beagle	Homologous organs
(4)	Convergent evolution	Louis Pasteur	INS Beagle	Homologous organs

20. How many of the following show convergent evolution?

- (A) Eye of an octopus and of mammal.  
 (B) All types of tendrils  
 (C) Vertebrate hearts  
 (D) Wings of butterfly and birds  
 (E) Adaptive radiation of marsupials

- (1) Only B  
 (2) A, Band 0  
 (3) A, D  
 (4) B, C and E