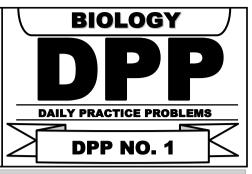
SARANSH | BIOLOGY



TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)



## **ZOOLOGY: EVOLUTION**

		DPP No	. : 1				
1.	Stanley Miller's experiment supports						
	(1) Chemical theory	(2) Abiogenesis	(3) Biogenesis	(4) Pangenesis			
2.	The earliest gases of the primitive earth were (1) hydrogen and nitrogen only. (2) water vapour and carbon dioxide. (3) water vapour and hydrogen. (4) water vapour, methane, ammonia and hydrogen.						
3.	In Miller's experiment, the raw materials were (1) H <sub>2</sub> O, HCN, H <sub>2</sub> and CH <sub>4</sub> (3) CH <sub>4</sub> , HCN, N <sub>2</sub> and H <sub>2</sub>		(2) CH <sub>4</sub> , NH <sub>3</sub> , H <sub>2</sub> and H <sub>2</sub> O (4) CH <sub>4</sub> , H <sub>2</sub> O, N <sub>2</sub> and H <sub>2</sub>				
4.	The first formed cells on the primordial earth we (1) autotrophic. (3) prokaryotic and heterotrophic.		ere (2) parasitic. (4) prokaryotic and autotrophic.				
5.	The idea of life arising (1) biogenesis.	out of nonliving things so (2) genesis.	uddenly is known as (3) panspermia.	(4) abiogenesis.			
6.	Which was not preser (1) Water	t freely in the early atmos (2) Carbon monoxide	sphere of the earth? (3) Hydrogen	(4) Oxygen			
7.	Complex organic compounds first evolved on ea (1) Urea and amino acids (3) Proteins and amino acids		arth and required for origin of life were (2) Proteins and nucleic acids (4) Urea and nucleic acid				
8.	today is- (1) 200-300 million years		(2) 2000-3000 million years				
9.	<ul> <li>(3) 400-460 million years</li> <li>(4) 4000-4600 million years</li> <li>Origin of life would have not been possible if-</li> <li>(1) Primitive atmosphere contained methane.</li> <li>(2) Primitive atmosphere contained oxygen.</li> <li>(3) Primitive atmosphere contained carbon dioxide.</li> </ul>						

(4) Primitive atmosphere contained ammonia.



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10.	Which of the followin	g 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						
	<ul> <li>(3) The primitive atmosphere was an oxidizing one and today's is a reducing one, making photosynthesis possible</li> <li>(4) It took so long for prokaryotic evolution because the primitive atmosphere screened out the ultraviolet radiation from the sun</li> </ul>						
11.	In Miller and Harold Urey's experiment the ratio of $CH_4$ & $NH_3$ 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 evolutio	(2) Divergent evolution			
	(3) Founder effect		(4) All of these	(4) All of these			
14.	Various types of marsupials are found in Australia. This is an example of						
	(1) Divergent evolution		(2) Covergent evolution	(2) Covergent evolution			
	(3) Founder effect		(4) Bergman's rule	(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 indus	(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 evo	olution					
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						
	<ul> <li>(3) Dissimilar origin, similar structure and similar function</li> <li>(4) Similar origin, similar basis structure, plan but generally dissimilar functions</li> </ul>						
	(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

