

Q1 What does Evolutionary Biology primarily study?

- (A) Future of life on earth
- (B) Migration patterns
- (C) History of life forms on earth
- (D) Behavior of animals in space

Q2 Who proposes the Embryological support for evolution?

- (A) Ernst Heckel
- (B) Charles Darwin
- (C) Alfred Wallace
- (D) James Watson

Q3 In 1953, S. L. Miller created primitive earth conditions in the laboratory and gave experimental evidence for origin of first form of life from pre-existing non-living organic molecules. The primitive earth conditions created include:

- (A) low temperature, volcanic storms, atmosphere rich in oxygen
- (B) low temperature, volcanic storms, reducing atmosphere
- (C) high temperature, volcanic storms, non-reducing atmosphere
- (D) high temperature, volcanic storms, reducing atmosphere containing CH₄, NH₃, etc.

Q4 Which of the following pair of concepts form the foundation of Darwin's Theory of Evolution?

- (A) Acquired characters and survival of the fittest
- (B) Branching descent and natural selection
- (C) Use and disuse and speciation
- (D) Inherited characters and survival of the fittest

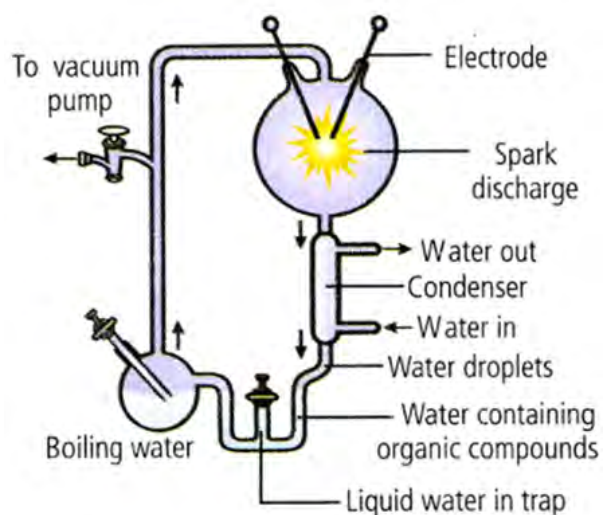
Q5 Match the Column.

	List-1 (Theory for evolution)		List-II (Observations)
P.	Theory of Panspermia	(i)	Analogous organs
Q.	Theory of abiogenesis	(ii)	Natural selection
R.	Convergent evolution	(iii)	Life originated from spores
S.	Charles Darwin	(iv)	Living organism originated from non living matter

- (A) P-(ii), Q-(i), R-(iii), S-(iv)
- (B) P-(iii), Q-(iv), R-(i), S-(ii)
- (C) P-(iii), Q-(iv), R-(ii), S-(i)
- (D) P-(ii), Q-(iv), R-(iii), S-(i)



Q6 Refer to the given diagram.



In the experiment in given diagram which of the following groups of gases were used to simulate primitive atmosphere?

- (A) N_2 , H_2 , CH_4 , C_2H_6
- (B) NH_3 , H_2O , CH_4 , H_2
- (C) N_2O , H_2O , NO_2 , S_2
- (D) CH_4 , H_2 , NO_2 , SO_2

Q7 According to Lamarck, a giraffe has a long neck because

- (A) A creator designed it that way
- (B) Catastrophes eliminated short-necked forms
- (C) Its ancestor stretched their necks to get food
- (D) Ancestral giraffes with slightly longer necks than others got more food and left more surviving offspring.

Q8 Assertion: The earliest organisms that appeared on the earth were non-green and presumable anaerobes.

Reason: The first autotrophic organisms were the chemoautotrophs that never released oxygen.

- (A) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (B) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
- (C) The Assertion is true but Reason is false.
- (D) Both the Assertion and Reason are false.

Q9 How many years ago the first cellular form of life appeared on earth?

- (A) 2000 million years ago
- (B) 20 million years ago
- (C) 200 million years ago
- (D) 200 million years ago

Q10 The Miller-Urey experiment simulated early earth conditions using gases like _____ and _____.

- | | |
|-------------------------------------|--|
| (A) CH_4 and CO_2 | (B) CO_2 and H_2O |
| (C) CH_4 and NH_3 | (D) H_2 and CO |

