

THIRUVANANTHAPURAM EDUCATIONAL DISTRICT

BWS17 X

Standard X

8. The Paths Traversed by Life

Answerkey

1.
 - a. The theory of chemical evolution states that life originated as a result of the changes that occurred in the chemical substances in seawater, under specific conditions in primitive earth.
 - b. A. I. Oparin & J. B. S. Haldane.
 - c. Hydrogen, Nitrogen, Carbon dioxide, Methane, Ammonia, Water vapour, Hydrogen sulphide etc.
 - d. Thunder and lightning, Ultraviolet radiations, Volcanic eruptions.
 - e.

(i) Monosaccharide	(iv) Polysaccharide
(ii) Nitrogen bases	(v) Nucleotides
(iii) Fatty acids, etc	(vi) Nucleic acids, lipid layer
2.
 - a. The differences in the beaks.
 - b. Variations occurred due to the different feeding habits. Accumulation of these variations result in the Origin of new species.
 - c. Thomas Robert Malthus.
 - d. "Origin of Species by Means of Natural Selection."
3.
 - A - Struggle for existence.
 - B - Those with favourable variations.
 - C - Destroyed.
 - D - Survive.
 - E - Favourable variations are transferred to the next generation.
 - F - Accumulation of variations inherited through generation.