



**ST. LAWRENCE HIGH SCHOOL**  
**A JESUIT CHRISTIAN MINORITY INSTITUTION**



**WORK SHEET – 12**

**Class: IX**

**Sub: LIFE SCIENCE**

**Date: 20.04.2020**

**Topic: Origin of life**

**F.M. : 15**

**Choose the correct option:**

**(1x15=15)**

1. Characteristic of living being:  
a) Formed of cells b) ability to grow c) ability to reproduce d) all of these
2. Growth encompasses:  
a) Cell division b) cell elongation c) cell differentiation d) all of these
3. Origin of Earth took place around :  
a) 4.5 billion years ago b) 6 billion years ago c) 3.7 billion years ago d) 2 billion years ago
4. Miller Urey took a mixture of following gases:  
a) Hydrogen,Oxygen,Ammonia b) Hydrogen,Ammonia, carbon monoxide c) Hydrogen,Oxygen,methane d) Hydrogen,oxygen,water vapour
5. Jelly like proteins which was created in Miller Urey represented the:  
a) Hot soup b) hot ocean c) hot dilute soup d) hot sea
6. Hydrogen used in Miller Urey experiment was to provide :  
a) Oxidising environment b) Reducing environment c) oxidizing and reducing environment d) None of these
7. Aggregates of organic molecules held with hydrophilic force of attraction:  
a) protocell b) microsphere c) coacervates d) proto virus
8. The first membrane bound structure is called:  
a) Coacervates b) Archea c) protocell d) cyanobacteria
9. Characteristics of protocell:  
a) Gel like cytosol b) cytosol covered by phospholipid membrane c) consists of nucleic acid d) all of the above
10. The first macromolecule RNA which produced the DNA by the process of:  
a) Transcription b) Translation c) Reverse transcription d) splicing
11. The first life forms were:  
a) Unicellular prokaryote b) multicellular prokaryote c) unicellular eukaryotic heterotroph d) Both (a) and (b)
12. The theory of Organic origin of Life was proposed by:  
a) Miller and Urey b) Oparin and Haldane c) Hugo De Vries d) Charles Darwin

13. The ability to utilize oxygen through emergence of mitochondria by fusion of two cells is called:
- a) Endosmosis b) Endosymbiosis c) Antibiosis d) Exobiosis
14. Formation of first multicellular eukaryotes evolved in three line:
- a) Evolution of plants b) evolution of animals c) evolution of fungi d) All of these
15. Stages of evolution include the following sequence:
- a) Formation of single cell prokaryote followed by multicellular eukaryote and unicellular eukaryote b) Evolution of heterotrophic prokaryote followed by autotrophic prokaryote and unicellular eukaryote c) Formation of eukaryotes directly d) Evolution of heterotrophic prokaryote followed unicellular eukaryotes and autotrophic prokaryotes

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