

ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION WORK SHEET – 24

Class: XII Sub: Biological Science Date: 01.07.2020

Topic: Chapter 7 (Part II) Origin of Life and Miller - Urey's experiment

F.M.: 15

Choose the correct option:

(1x15=15)

- The concept of abiotic origin of biomolecules of Oparin and Haldane was supported by
 _____ experiment.
 - a) Needham b)Louis Pasteur c) Miller and Urey d) None of these
- 2. The primitive atmosphere was simulated in Miller Urey's experiment by providing :
 - a) Effect of lightning b) Gases containing CH₄, NH₃, H₂ c) Water in vapour state d) All of these
- 3. The colloidal aggregates of biomolecules are called :
 - a) Coacervates b) Protocell c) Organic molecules d) All of these
- 4. The first cell like structure with a limiting membrane was called :
 - a)Coacervates b) Microsphere c) Protocell d) All of these
- 5. The limiting membrane of the first prebiotic structure chemically consisted :
 - a) Phospholipid b) Lecithin c) Cephalin d) Both (b) and (c)
- 6. The first autocatalytic systems appeared in :
 - a) Proto-viruses b) Proto cells c) Coacervates d) Microspheres
- 7. The first sign of self perpetuating life was displayed by :
 - a) Proteins b) Nucleoproteins c) Lecithin d) Cephalin
- 8. The first organisms originated in the ocean, about 3.7 billion years and they were :
 - a) Heterotrophic b) Anaerobic c) Virus-like nucleoproteins d) Organisms with all above characteristics
- 9. The anaerobic heterotrophs acquired enzymes and it laid the formation of :
 - a) Parasites b) Photoautotrophs c) Chemoautotrophs d) Symbionts
- 10. The chlorophyll bearing prokaryotes of the primitive ocean can be compared to the present day
 - a) Blue green algae b) Deep sea sulphur bacteria c) Green algae d) Diatoms
- 11. The free oxygen liberated by the chlorophyll bearing prokaryotes formed _____ around the earth.
 - a) Ozone layer b) Ionosphere c) Exosphere d) All of these
- 12. The prokaryotes developed into eukaryotic cells by the process of :
 - a) Symbiosis b) Mutualism c) Endosymbiosis d) None of these
- 13. In the laboratory apparatus, Miller and Urey synthesized :
 - a) Proteins b) DNA c) Amino acids d) Protobiont

14.	The first autotrophs probably were and produced
	a) Photosynthetic, Oxygen b) Photosynthetic, No oxygen c) Eukaryotic, oxygen d) Eukaryotic, No
	oxygen
15.	Which of the following would have been most likely to develop only after the formation of a
	true cell ?
	a) Autotroph b) Heterotroph c) Microsphere d) Proteinoid
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