



ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION



SOLUTION – 02

Class: IX

Sub: Life Science

Date: 18.01.2021

Topic: Origin and evolution of life

F.M. : 15

Choose the correct option:

(1x15=15)

- Who proposed theory of organic evolution of life?
a) Miller and Urey **b) Oparin and Haldane** c) Louis Pasteur d) Both (a) and (b)
- What type of forces held the organic molecules together in the earliest life forms?
a) hydrophilic b) hydrophobic c) electrostatic d) hydrostatic
- The correct sequence of structural hierarchy
a) protocell->coacervates->eukaryotic cell->microsphere b) proto cell->microsphere->coacervates->eukaryotic cell **c) coacervates->microsphere->protocell->multicellular prokaryotes** d) coacervates->microsphere->eukaryote->protocell
- The larger droplets of macromolecules were called:
a) Coacervates b) protocell **c) microsphere** d) prokaryotic cell
- The first membrane bound structure produced during evolution :
a)microsphere b) coacervates **c) protocell** d) macromolecules
- The first life forms had the following features:
a) unicellular b) prokaryotic c) devoid of nuclear membrane **d) all of these**
- Hair like structure present on the surface of bacterial cell:
a) pili b) plasma membrane c) cell wall d) nucleoid
- The circular DNA present in the bacterial cell :
a) ribosomes b) nucleus **c) nucleoid** d) nucleolus
- Formation of single cell prokaryotes took place years ago.
a) 3.5 billion **b) 3.5 million** c) 2 million d) 3 billion
- First unicellular photosynthetic prokaryotic cell took place Years ago.
a) 4.55 billion b) 13.7 billion **c) 3.4 billion** d) 4.6 billion
- The ability to utilize oxygen through emergence of mitochondria by fusion of 2 cells is called:
a) endosymbiosis b) competence c) endosmosis d) exosmosis
- The formation of multicellular eukaryotes took place years ago
a) 1 million **b) 1 billion** c) 10 million d) 10 billion
- Mannan and chitin is found in the cell wall of :
a) bacteria **b) fungi** c) plant d)none of these

14. The process of organic evolution has generated million species.
a) 300 b) 3 c) 30 d) 330
15. Formation of multicellular eukaryotes resulted in the formation of:
a) plants b) animals c) fungi d) all of these

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