

Q.IV.1.B. Choose the correct alternative (any 3)

[3M]

1. How old is earth?
 - a) 4.5 billion years old
 - b) 3.5 billion years old
 - c) 1.5 billion years old
2. Miller and Urey's experiments proved that
 - a) life evolved on earth from inanimate chemicals
 - b) coacervates were the first type of protocells
 - c) complex organic molecules can form spontaneously under conditions that probably existed on the early earth
3. In eukaryotes ribosomes are
 - a) 70S
 - b) 60S
 - c) 80S
4. You are told that the cells on a microscope slide are plant, animal, or bacterial. You look at them through a microscope and see cell walls and membrane-bound organelles. You conclude that the cells
 - a) are plant cells.
 - b) could be either plant or bacterial.
 - c) could be plant, animal, or bacterial
5. Cells without a membrane-bound nucleus and membrane systems in the cytoplasm are ____ cells.
 - a) prokaryotic
 - b) eukaryotic
 - c) both a and b
6. Pasteur used flask with a _____ shaped neck to disprove spontaneous generation theory.
 - a) S shaped
 - b) T shaped
 - c) C shaped

Q.IV.2.A. Answer the following (any one)

[2M]

1. Define hypertonic solution.
2. What are MAPs?

(contd.)