

Cell and Molecular Biology

MCQ

1. What is the name of the region where double-stranded single circular DNA is found in the prokaryotic cell?

- (a) Protonucleus
- (b) Nucleus
- (c) Nucleoid
- (d) Nucleoplasm

2. In prokaryotic cells, ribosomes are

- (a) 70 S
- (b) 80 S
- (c) 60S + 40S
- (d) 50S + 40S

3. Which of these is a characteristic of prokaryotic cells?

- (a) Absence of cell organelles
- (b) Absence of nucleus
- (c) Presence of 70S ribosomes
- (d) All of these

4. A difference between eukaryotic and prokaryotic cells is in having

- (a) Ribosomes
- (b) Cell wall
- (c) Nuclear membrane
- (d) None of the above

5. In prokaryotes, the hair-like outgrowths which attach to the surface of other bacterial cells are

- (a) Flagella
- (b) Pili
- (c) Capsule
- (d) Plasmids

6. Which of these structures are absent in eukaryotes?

- (a) Organised nucleus
- (b) Membrane bound organelles
- (c) Mesosome
- (d) Nuclear envelop

7. Which of these are absent in plant cell?

- (a) Large central vacuole

- (b) Cell wall
- (c) Centriole
- (d) Plastid

8. Which of these scientists proposed the fluid mosaic model of the cell membrane?

- (a) Schleiden and Schwann
- (b) Hershey and Chase
- (c) Singer and Nicholson
- (d) Watson and Crick

9. Fluidity of the cell membrane is a measure of the _____

- (a) ability of water to pass through the membrane
- (b) ability of potassium ions to pass through the membrane
- (c) ability of sodium ions to pass through the membrane
- (d) ability to move within the membrane

10. In, organelles are covered by a membrane.

- (a) Prokaryotes
- (b) Eukaryotes
- (c) Organisms
- (d) Cells