



Botany By Rupesh Chaudhary Sir

1. The smallest cell is
 - (1) ostrich egg
 - (2) mycoplasma
 - (3) WBC
 - (4) Liver cell
 2. Which of the following statement is incorrect w.r.t. prokaryotes?
 - (1) They have primitive type of cells that lack nucleus
 - (2) They have membrane bound cell organelles like ER
 - (3) They have 70S ribosomes
 - (4) They multiply much faster than eukaryotic cells
 3. In some photosynthetic prokaryotes, pigments containing structure is
 - (1) chloroplast
 - (2) chromatophore
 - (3) chromoplast
 - (4) capsule
 4. Plasmid contains
 - (1) ds circular DNA
 - (2) ss circular DNA
 - (3) ds linear DNA
 - (4) ss linear DNA
 5. Which of the following is not a surface found in bacteria?
 - (1) Pili
 - (2) Fimbriae
 - (3) Flagella
 - (4) Plasmids
 6. Select the option that correctly fills up the blanks [A], [B] and [C]
 - (i) ____ [A] ____ refers to a chain of ribosomes attached to a single mRNA
 - (ii) Cyanobacteria has membranous extensions into the cytoplasm called ____ [B] ____ which contain pigments
 - (iii) ____ [C] ____ are small bristle like fibres sprouting out of the bacterial cell that helps in attachment
 7. Cell envelope of prokaryotes consists of:
 - (1) Glycocalyx
 - (2) Cell wall
 - (3) Cell membrane
 - (4) All of these
 8. The genetic material of prokaryotic cells is called:
 - (1) Nucleus
 - (2) Nucleolus
 - (3) Nucleoid
 - (4) Centrosome
 9. Which of the following is NOT a function of mesosomes?
 - (1) Respiration
 - (2) DNA replication
 - (3) Increases enzymatic content
 - (4) Reproduction
 10. Gas vacuoles are found in :
 - (1) Blue-green photosynthetic bacteria
 - (2) Purple and green photosynthetic bacteria
 - (3) Both (1) and (2)
 - (4) All bacteria
 11. In prokaryotes, chromatophores are:
 - (1) specialised granules responsible for food storage within the cells.
 - (2) structures responsible for organizing the shape of the organism.
 - (3) inclusion bodies lying free inside the cells for carrying out various metabolic activities.
 - (4) membranous extension into the cytoplasm which contain pigments.
- | [A] | [B] | [C] |
|--------------------|----------------|----------|
| (1) Polyribosomes, | Chromoplast, | Pili |
| (2) Polysome, | Chromatophore, | Fimbriae |
| (3) Mesosome, | Chromatophore, | Pili |
| (4) Polysome, | Mesosome, | Fimbriae |



- 12.** In a prokaryotic cell,
- A. Enveloped genetic material is present
 - B. Ribosomes are absent
 - C. An organised nucleus is absent.

The correct option is

- (1) Only A
- (2) Only B
- (3) Only C
- (4) All of these

- 13.** Correct sequence of layers of bacterial cell envelope is:

- (1) Cell membrane → Glycocalyx → Cell wall
- (2) Glycocalyx → Cell wall → Cell membrane
- (3) Cell wall → Glycocalyx → Cell membrane
- (4) Glycocalyx → Cell membrane → Cell wall



ANSWER KEY

1. (2)
2. (2)
3. (2)
4. (1)
5. (4)
6. (2)
7. (4)

8. (3)
9. (4)
10. (4)
11. (4)
12. (3)
13. (2)



PW Web/App - <https://smart.link/7wwosivoicgd4>

Library- <https://smart.link/sdfez8ejd80if>