



Class 11 Biology | Cell: The Unit Of Life

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. A cell has DNA but no nuclear envelope or membrane-bound organelles. It is

- A. A fungal cell
- B. A mature plant cell
- C. Prokaryotic
- D. An animal egg

2. A bacterium synthesises proteins on

- A. Lysosomes
- B. 70S ribosomes
- C. 80S ribosomes only
- D. Golgi cisternae

3. Which structure is shared by typical plant and animal cells?

- A. Cellulose wall
- B. Chloroplast
- C. Mitochondrion
- D. Large central vacuole

4. A secretory protein is synthesised mainly on ribosomes bound to

- A. Tonoplast
- B. Centriole
- C. Smooth endoplasmic reticulum
- D. Rough endoplasmic reticulum

5. A cell actively synthesising steroids is likely to have abundant

- A. Cilia
- B. Cell walls
- C. Contractile vacuoles
- D. Smooth ER

6. The organelle that modifies and packages proteins for secretion is the

- A. Nucleolus
- B. Centrosome
- C. Golgi apparatus
- D. Peroxisome

7. Lysosomal enzymes normally act best in an

- A. Acidic environment
- B. Extremely alkaline environment
- C. Anhydrous environment
- D. Oxygen-free gas

8. Most ATP from aerobic respiration is produced at the

- A. Golgi membrane
- B. Outer nuclear membrane
- C. Tonoplast
- D. Inner mitochondrial membrane

9. Photosynthetic pigments are embedded mainly in chloroplast

- A. Stromal DNA
- B. Ribosomes
- C. Thylakoid membranes
- D. Outer envelopes

10. The membrane surrounding the plant vacuole is the

- A. Nuclear lamina
- B. Tonoplast
- C. Plasmalemma
- D. Middle lamella

11. Channels connecting neighbouring plant cytoplasms are

- A. Plasmodesmata
- B. Cristae
- C. Desmosomes
- D. Tight junctions

12. The nucleolus is chiefly involved in

- A. Ribosome biogenesis
- B. Spindle contraction
- C. Lipid digestion
- D. ATP export

13. A 9+2 arrangement of microtubules is typical of the

- A. Centriole wall
- B. Bacterial flagellum
- C. Eukaryotic flagellar axoneme
- D. Nucleosome

14. Which molecule can most readily cross a lipid bilayer unaided?

- A. Oxygen
- B. A protein
- C. Sodium ion
- D. Glucose

15. Which organelle contains its own DNA and ribosomes?

- A. Vacuole
- B. Golgi body
- C. Lysosome
- D. Chloroplast

ANSWER KEY — check after completing all 15 questions

1.C 2.B 3.C 4.D 5.D 6.C 7.A 8.D 9.C 10.B 11.A 12.A 13.C 14.A 15.D

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper