



BIOLOGY

NCERT - NCERT Biology(Telugu)

CELL STRUCTURE AND FUNCTIONS

Medicine Orientated Material

1. The structure which prevents the bacteria from bursting or collapsing is

A. Cell wall

B. Glycocalyx

C. Cell membrane

D. Mesosomes

Answer:



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2. Ribosomes are produced in

A. Nucleus

B. Cytoplasm

C. Mitochondria

D. Golgi complex

Answer:



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3. Largest cell is

A. Egg of ostrich

B. RBC

C. WBC

D. Mesophyll cell

Answer:



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4. Amembranous cell organelles which are found in both prokaryotic and eukaryotic cells are

A. Ribosomes

B. Microbodies

C. Vacuole

D. Mitochondria

Answer:



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5. Unique features of prokaryotic cells are the presence of

A. Mesosomes

B. Inclusion bodies

C. Plasmids

D. All of the above

Answer:



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6. Who first applied cell theory to plants?

A. Schwann

B. Virchow

C. Schlutz

D. Schleiden

Answer:



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7. All structural details of cell were revealed through the following instrument

A. Light microscope

B. Ultra centrifuge

C. Electron microscope

D. Phase contrast microscope

Answer:



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8. Major site for lipid synthesis in a cell is

A. RER

B. SER

C. Mitochondria

D. Nucleus

Answer:



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9. SER differ with RER in lack of

A. Polysomes

B. Nucleus

C. Centrioles

D. Ribosomes

Answer:



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10. Major structural components of Golgi apparatus are

A. Cisternae

B. Tubules

C. Vesicles

D. All of the above

Answer:



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11. The fluid nature of plasma membrane helps
in

- A. Endocytosis
- B. Cell division
- C. Cell growth
- D. All the above

Answer:



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12. Animal cells are different from plant cells in
lack of

A. Plastids

B. Cell wall

C. Nucleus

D. Both 1 and 2

Answer:



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13. Type of ribosomes present in prokaryotes is

A. 70s

B. 80s

C. 60s

D. 30s

Answer:



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14. Endoplasmic reticulum arises from

- A. Inner karyotheca
- B. Outer karyotheca
- C. Plasma membrane
- D. Endomembrane system

Answer:



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15. Pigmented regions of the chloroplast are

A. Stroma

B. Inner membranes

C. Thylakoids

D. Both b and c

Answer:



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16. A network of filamentous proteinaceous structures present in the cytoplasm is

A. Endoplasmic reticulum

B. Polysomes

C. Cytoskeleton

D. None

Answer:



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17. Cell organelle which produces the cellular energy in the form of ATP is

- A. Ribosomes
- B. Mitochondria
- C. Golgi complex
- D. Nucleus

Answer:



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18. The surface area of mitochondria can be increased by

A. Outer membrane

B. Cristae

C. Matrix

D. All of the above

Answer:



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19. The unit membrane present around the vacuole is called

A. Tonoplasm

B. Tonoplast

C. Tonolymph

D. No specific name

Answer:



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20. The cell organelle which principally performs the function of packaging materials in a cell is

A. RER

B. SER

C. Golgi complex

D. Cell wall

Answer:



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21. Enzymes that are found in the matrix of lysosome

A. Lysosomes

B. Peroxisomes

C. Glyoxysomes

D. Lipase

Answer:



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22. The colourless (non-pigmented) plastids are

- A. Leucoplasts
- B. Chloroplasts
- C. Chromoplasts
- D. Dermoplasts

Answer:



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23. Ribosomes were first observed by

A. Kollikar

B. Palade

C. Camello Golgi

D. Benda

Answer:



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24. The membrane less space present nearer to the nucleus in animal cell is

A. Spherosomes

B. Centrosomes

C. Basal bodies

D. Chondriosome

Answer:



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25. One or more spherical bodies found in the matrix of nucleus are called

- A. Chromatin
- B. Nucleoli
- C. Nucleoplasm
- D. Genetic material

Answer:



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26. Rough texture of outer nuclear membrane is due to the presence of

A. RER

B. SER

C. Nuclear pores

D. Ribosomes

Answer:



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27. Number of unit membranes that bound the nucleus are

A. 1

B. 2

C. 3

D. 4

Answer:



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28. Cell organelle not found in erythrocytes of many mammals is

A. Mitochondria

B. Nucleus

C. Ribosomes

D. All organelles are present

Answer:



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29. Common cell wall materials found in plant cells are

A. Cellulose

B. Suberin

C. Lignin

D. Pectin

Answer:



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30. Nucleoli were discovered by

A. Hertwig

B. Watson

C. Schleiden

D. Fontana

Answer:



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31. Cell wall was first observed by

A. Robert Brown

B. Robert Hill

C. Robert Hooke

D. Schleiden

Answer:



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32. The term chromosome was coined by

A. Waldeyer

B. Hertwig

C. Fontana

D. Watson

Answer:



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33. The seat of a number of biological process in a cell is

A. Nucleolus

B. DNA

C. Protoplasm

D. Plasma membrane

Answer:



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34. Cell theory is not applicable to

A. Viruses

B. Viroids

C. Prions

D. All of the above

Answer:



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35. Major packaging material of chromosome is

A. DNA

B. RNA

C. Histones

D. All

Answer:



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