CELL: THE FUNDAMENTAL UNIT OF LIFE

CLASS: IX

- 1. Which of the following organelles is smallest in size?
- a. Ribosome
- b. Mitochondrial
- c. Chloroplast
- d. Lysosome
- 2. Which of the following organelles have double membrane?
- a. Chloroplast
- b. Ribosome
- c. Lysosome
- d. Vacuole
- 3. Which of the following organelle is not present in an animal cell?
- a. Ribosome
- b. Plastid
- c. Mitochondrial
- d. Nucleus
- 4. Plastid that is colourless is
- a. Chromoplast
- b. Leucoplast
- c. Chloroplast
- d. Lysosome
- 5. Plant cell wall is mainly composed of
- a. Cellulose
- b. Lipid
- c. Protein
- d. Sugar
- 6. The foldings of the inner membrane of mitochondria are known as
- a. Stroma
- b. Grana
- c. Cristae
- d. Oxysome

- 7. The site of aerobic respiration, in an animal cell, is
 a. Ribosome
- b. Mitochondrial
- c. Chloroplast
- d. Nucleus
- 8. Ribosomes are the site of
- a. Protein synthesis
- b. Lipid synthesis
- c. Respiration
- d. Photosynthesis
- 9. Which of the following statements is correct?
- a. Prokaryotic cells are surrounded by a cell membrane
- b. Prokaryotic cells have a nucleus
- c. Eukaryotic cells have genetic information
- d. Eukaryotic cells have membrane-bound organelles
- 10. The membrane that surrounds the vacuole is
- a. Tonoplast
- b. Plasma membrane
- c. Cell wall
- d. Nuclear membrane
- 11. The organelle involved in cell secretion is
- a. Plastids
- b. ER
- c. Golgi bodies
- d. Nucleolus
- 12. Plasmolysis occurs due to
- a.Diffusion
- b. Endosmosis
- c. Exosmosis
- d. Absorption

13. The solution that has higher water concentration than the cell is known as
a. Hypertonic
b. Hypotonic
c. Isotonic
d. None of these
14. Cell nucleus was discovered by
a. Robert Hooke
b. Robert Brown
c. Virchow
d. Leuwenhoek
15. Which process requires the energy provided by ATP?
a. Osmosis
b. Diffusion
c. Active transport
d. Plasmolysis
16. Cellular respiration is related to as is related to chloroplasts.
a. Mitochondria, Light
b. Mitochondria, Photosynthesis
c. Chloroplast, Light
d. Chloroplast, Photosynthesis
17. Lipid molecules in the cell are synthesised by
a. SER
b. RER
c. Golgi bodies
d. Ribosomes
18. A cell that contains a large central vacuole is
a. Plant cell
b. Animal cell
c. Bacterial cell
d. Yeast cell

19. Old organelles, viruses and bacteria that a cell can ingest are broken down in
a. Ribosomes
b. Lysosomes
c. SER
d. RER
20. A slide of human cheek cell is stained with methylene blue and mounted in glycerine. Which of the following cellular organelle would you be able to see under a microscope?
a. Plasma membrane
b. Cell wall
c. Mitochondrial
d. Lysosome
21. A cell "X" contains a cell wall, large central vacuole and a nucleus at the periphery. The cell "X" is
a. Plant cell
b. Animal cell
c. Bacterial cell
d. Prokaryotic cell
22. In human cheek cells, the nucleus is located at the
a. Center of the cell
b. The left side of the cell
c. The right side of the cell
d. None of these.
23. Which term is used to refer the process of absorption of water by wooden doors in rainy season?
a. Exosmosis
b. Endosmosis
c. Diffusion
d. Imbibition
24. Raisins soaked in high concentrated solution of sugari The process involved is known asii
a. i- shrinks, ii- endosmosis
b. i- swells, ii- Exosmosis
c. i- shrinks, ii- exosmosis
d. i- swells, ii- endosmosis

25. When raisins are kept in water, the water movesi_ ii	the raisins.	This makes the raisins to
a. i- inside, ii- swell		
b. i- inside, ii- shrink		
c. i- outside, ii- swell		
d. i-outside, ii- shrink		
26. What will happen, a when a human RBC is a placed in a	hypotonic envi	ronment?
a. It undergoes plasmolysis		
b. It undergoes turgidity		
c. It is at equilibrium		
d. None of these		
27. Chromosomes are made up of		
a. DNA		
b. Protein		
c. DNA and Protein		
d. RNA		
28. Lysosomes are formed by		
a. RER		
b. SER		
c. Plasma Mambrane		
d. Golgi apparatus		
29. Organelle other than nucleus, containing DNA is		
a. ER		
b. Golgi apparatus		
c. Chloroplast		
d. Lysosome		
30. Lipid molecules of cell are synthesized by		
a. SER		
b. RER		
c. Nucleus		
d. Mitochondria		
31. A plasma membrane consists of:		
a. Chitin b. Cellulose c. Protein and lipid. d. Fibre.		

32. Cytoplasm = Protoplasm
a. Plasma mebrane b. Cytoplasm c. Organelles d. Nucleus.
33. We say Rough Endoplasmic Reticulum as rough because are attached to it.
a. smooth endoplasmic reticulum b. Mitochindria c. Ribosome d. Nucleus.
34. Colorful organelles in plant cells are called:
a. Chloroplast b. Plastid c. Chromoplast d. Leucoplast
35. The function of the vacuole in plants is
a. Digestion b. Antibody production c. Provides rigidity and turgidity to plant d. None
36. Which is the largest cell organelle present in plant cell?
(a) Nucleus(b) Chloroplast(c) Endoplasmic reticulum (d) Mitochondria
37. During plasmolysis the space between cell wall and shrinked protoplasm is filled by
a. Water b. Hypertonic solution c. Hypotonic solution d. Gas
38. Cell wall of which one of these is not made up of cellulose?
(a) Bacteria
(b) Hydrilla
(c) Mango tree
(d) Cactus
39. Kitchen of the cell is
(a) mitochondria
(b) endoplasmic reticulum
(c) chloroplast
(d) golgi apparatus
40. Select the odd one out
(a) The movement of water across a semi-permeable membrane is affected by the amount of substances dissolved in it.
(b) Membranes are made of organic molecules like proteins and lipids
(c) Molecules soluble in organic solvents can easily pass through the membrane.
(d) Plasma membranes contain chitin sugar in plants

