

EXERCISE # 1

A. Single Choice Type Questions

- Q.1** Power house of cell is -
(A) Lysosome (B) Ribosome
(C) Mitochondria (D) Vacuole
- Q.2** Who discovered the cell -
(A) Robert hooke (B) Purkinje
(C) Robert brown (D) Davson
- Q.3** Mitochondria are site of -
(A) Electron transport
(B) Cellular respiration
(C) ATP formation
(D) All
- Q.4** Golgi body take part in -
(A) Lipid synthesis
(B) Carbohydrate synthesis
(C) Protein synthesis
(D) Oxidative phosphorylation
- Q.5** Protein synthesis occurs on -
(A) Ribosome (B) Lysosome
(C) Nucleus (D) Chloroplast
- Q.6** Which of the following has a single membrane -
(A) Nucleus (B) Mitochondrion
(C) Ribosome (D) Plastid
- Q.7** What is the function of ER -
(A) Nucleus
(B) Mechanical support
(C) ATP formation
(D) Exchange of molecules
- Q.8** Grana & Stroma lamella occur in -
(A) Ribosome (B) Chloroplast
(C) Mitochondria (D) Golgi body
- Q.9** Krebs's cycle occurs in -
(A) Matrix of mitochondria
(B) Nucleoplasm
(C) Cytoplasm
(D) Protoplasm
- Q.10** Organelle, which remove worn-out cell organelle is -
(A) Lysosome
(B) Plastid
(C) Mitochondria
(D) Golgi complex
- Q.11** Which of the following organelle is involved in formation of lysosomes -
(A) SER (B) Golgi complex
(C) RER (D) Mitochondria
- Q.12** Numerous membrane layer present in plastid known as -
(A) Cisternae (B) Stroma
(C) Grana (D) Matrix
- Q.13** Chromosomes are made up of -
(A) DNA (B) Protein
(C) DNA & protein (D) RNA
- Q.14** Cell wall of which one of these is not made up of cellulose -
(A) Bacteria (B) Hydrilla
(C) Mango tree (D) Cactus
- Q.15** Kitchen of the cell -
(A) Mitochondria (B) ER
(C) Chloroplast (D) Golgi complex
- Q.16** Membrane biogenesis is related with -
(A) Cell membrane
(B) Nuclear membrane
(C) Cell wall
(D) None
- Q.17** Organelle other than nucleus, containing DNA is -
(A) Endoplasmic reticulum
(B) Mitochondria
(C) Golgi apparatus
(D) Lysosome
- Q.18** Amoeba acquires its food through a process termed as -
(A) Exocytosis (B) Plasmolysis
(C) Endocytosis (D) Both A & B

Q.19 The outermost layer of human cheek cell is -
(A) Cell wall
(B) Nuclear membrane
(C) Plasma membrane
(D) Cytoplasm

Q.20 The diffusion of water from external solution into dry raisins is called -
(A) Exosmosis
(B) Endosmosis
(C) Imbibition
(D) Plasmolysis

Q.21 The plasma membrane of all living cell is -
(A) Impermeable
(B) Semi permeable
(C) Permeable
(D) Selectively permeable

Q.22 Which cell organelle is not bounded by a membrane -
(A) Nucleus (B) Lysosome
(C) Ribosome (D) ER

Q.23 In plant cells, the cell wall is -
(A) Dynamic & living
(B) Rigid & non living
(C) Dynamic & non living
(D) Rigid & living

Q.24 The outer most covering of amoeba is -
(A) Tonoplast (B) Plasma membrane
(C) Cell wall (D) Neurolemma

Q.25 Oxysomes are present in -
(A) Mitochondria (B) Peroxisomes
(C) Plastid (D) Cytoplasm

EXERCISE # 2

A. Very Short Answer Types Questions

- Q.1 What are chromosomes ?
- Q.2 Name the protein factory of cell ?
- Q.3 What are leucoplasts ?
- Q.4 Which cell organelle is commonly called cellular housekeeper ?
- Q.5 Name any cell organelle which is non-membranous ?
- Q.6 Name the organelles having double membrane envelope ?
- Q.7 Give 2 examples of unicellular organisms ?
- Q.8 Define osmosis ?
- Q.9 Define diffusion.
- Q.10 Name two types of Endoplasmic reticulum present in the cell ?

B. Short Answer Types Questions

- Q.11 Who discovered cell & how ? -
- Q.12 Why is plasma membrane called selectively permeable membrane ?
- Q.13 Which organelle is known as the power house of cell & why ?
- Q.14 What is osmosis ?
- Q.15 Why are lysosomes known as suicide bags ?

C. Long Answer Types Questions

- Q.16 Draw a well labelled sketch of a ultra structure of animal cell ?
- Q.17 Explain the following -
(a) Membrane biogenesis
(b) Diffusion
(c) Endocytosis
(d) Cell organelles
- Q.18 (a) Draw a diagram of an animal cell & label its seven parts.
(b) Mention two cell organelles which are bounded by double membrane. Give structural detail also.

D. Match The Following

- | Q.19 | Column (A) | Column (B) |
|-------|--------------------------------|------------------|
| (i) | Smooth endoplasmic – reticulum | Amoeba |
| (ii) | Lysosome | – Nucleus |
| (iii) | Food vacuoles | – Bacteria |
| (iv) | Chromatin material & Nucleolus | – Detoxification |
| (v) | Nucleoid | – Suicidal bag |

E. Complete the following sentences

- Q.20 Transporting channels of cell is
- Q.21 Power house of cell is.....
- Q.22 Digestive bag of cell is.....
- Q.23 Kitchen of cell is
- Q.24 Storage sacs of the cell is
- Q.25 Control room of the cell is.....