

Class : XI<sup>th</sup>  
Date :

Subject : BIOLOGY  
DPP No. : 10

## Topic :- Cell the Unit of Life

- Prokaryotic cells are generally ..... and multiply more rapidly than the eukaryotic cells  
a) Large                      b) Small                      c) Convex                      d) Biconcave
- Animal cell contains non-membrane bound organelles called .....which helps in cell division  
a) Nucleus                      b) Centriole                      c) Mitochondria                      d) Vacuoles
- In prokaryotes, genetic material is  
a) Basically naked                      b) Enveloped by a nuclear membrane  
c) Associated with histones                      d) Linear
- Which of the character is not applicable to *t*RNA?  
a) It is the smallest of the RNAs                      b) It acts as an adaptor for amino acid  
c) It has a clover leaf like structure                      d) It is the largest of the RNAs
- Choose the incorrect match.  
a) Nucleus                      – RNA                      b) Lysosome                      – Protein synthesis  
c) Mitochondria                      – Respiration                      d) Cytoskeleton                      – Microtubules
- Which of the following is the site of lipid synthesis?  
a) Rough ER                      b) Smooth ER                      c) Golgi bodies                      d) Ribosome
- Which of the following cell organelles is rich in catabolic enzymes?  
a) Chloroplast                      b) Mitochondria                      c) Golgi complex                      d) Ribosome
- There are special proteins that help to open up DNA double helix in front of the replication fork. These protein are  
a) DNA ligase                      b) DNA gyrase                      c) DNA polymerase-I                      d) None of these
- Select the right option which relates to Schwann regarding the following statement  
I. He reported that cells have a thin outer layer which is today known as plasma membrane  
II. Cell wall is a unique character of the plant cell  
III. Body of plants and animals are composed of cells and product of cells  
Choose the correct option from below  
a) All are incorrect                      b) Only III is correct                      c) All are correct                      d) II and III are correct

10. Within the cell, ribosomes are found in  
 a) Cytoplasm  
 b) Chloroplasts (in plants) and mitochondria  
 c) Rough ER  
 d) All of the above
11. Which of the following characteristic is correct about cell of plant cells?  
 a) Plays role in protection  
 b) Helps in cell-cell interaction  
 c) Provides a barrier to undesirable macromolecules  
 d) All of the above
12. Which one is single membrane cell organelle?  
 a) Endoplasmic reticulum  
 b) Mitochondria  
 c) Lysosomes  
 d) Chloroplast
13. Middle lamella is composed of  
 a) Carbohydrate      b) Calcium pectate      c) Protein      d) Peptidoglycan
14. When a molecule moves across a membrane independent of other molecules, the process is called  
 a) Uniport      b) Symport      c) Antiport      d) Facilitated diffusion
15. Meselson and Stahl experiment proved  
 a) DNA is a genetic material      b) Central dogma  
 c) transformation      d) Semi-conservation DNA replication
16. Which one of the following remains absent in prokaryotes?  
 a) Nuclear membrane      b) Ribosome      c) Cell wall      d) Plasma membrane
17. Thylakoids occur inside  
 a) Mitochondria      b) Chloroplast  
 c) Golgi apparatus      d) Endoplasmic reticulum
18. Cell organelle common in Monera and Protista is  
 a) Lysosome      b) Chloroplast      c) Ribosome      d) Vacuole
19. Ribozyme was discovered by  
 a) Kuhne      b) Duclaux      c) Cech *et al*      d) Altmann
20. Cellular respiration is carried out by  
 a) Ribosome      b) Mitochondria      c) Chloroplast      d) Golgi bodies

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