

Time : 1 hour 15 Minute

STD 11 Science Biology
Chapter Based Test

Total Marks : 40

SECTION A

* Choose The Right Answer From The Given Options.[1 Marks Each] [5]

- Who proposed the fluid mosaic model of plasma membrane?
(A) Benda. (B) Schleiden and Schwann.
(C) Singer and Nicolson. (D) Robert Brown.
- Quasi-fluid nature of membrane is due to:
(A) Phospholipid. (B) Peripheral protein.
(C) Integral protein. (D) Sugar moiety.
- Cell secretion is done by:
(A) Plastids (B) ER
(C) Golgi apparatus (D) Nucleolus
- What is the basis of classification of chromosomes?
(A) Position of Telomeres. (B) Position of centromere.
(C) Size of arms of chromosome. (D) All of the above.
- Bacterial flagella is made up of:
(A) Tubulin (B) Flagellin
(C) Chitin (D) None of these

* Answer The Following Questions In One Sentence.[1 Marks Each] [6]

- Which is the only organelle found in a prokaryotic cell?
- A _____ chromosome has a terminal centromere.
- What is active transport?
- What is meant by (9 + 2) organisation of axonemal microtubules?
- Mention the two important characteristics of unicellular organisms.
- Name (a) the smallest and (b) the longest cells in a human body.

SECTION B

* Given Section consists of questions of 2 marks each. [10]

- What are inclusion bodies? Name the four types of them.
- What is the importance of centriole?
- Cell membrane is semi-permeable in nature and thus allows passage to selected substances through it. Which of the following can be learnt from this property of the cell

membrane? What are the benefits of selectively learning or adapting certain things for us?

- i. We should only eat selected food.
- ii. We should follow good behaviour only and avoid bad behavior.
- iii. We should pay respect to selected persons only.

4. What are the four basic shapes of bacteria?

5. Write briefly the contribution of Rudolf Vinchow in formulating cell theory. Write the cell theory in modern context.

OR

State the cell theory as modified by Rudolf Vinchow.

SECTION C

* **Given Section consists of questions of 3 marks each.**

[9]

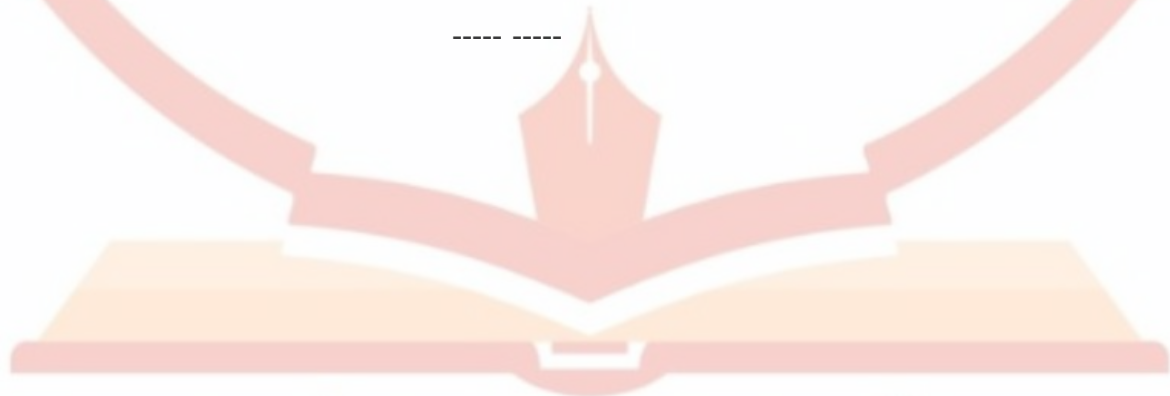
1. Give a brief account of structure and functions of Endoplasmic Reticulum.
2. What are plasmids? Describe their role in bacteria.
3. Leucoplasts are colourless plastids. Name and mention the storage products of the different types of leucoplasts.

SECTION E

* **Given Section consists of questions of 5 marks each.**

[10]

1. Describe the structure of the following with the help of labelled diagrams.
Centrosome
2. Describe cilia and flagella of eukaryotic cell. How are flagella of eukaryotes different from those of prokaryotic cell?



॥ ज्ञानं एव श्रमस्य पुंजः ॥