



XI-SCI : Biology
Cell Structure and Organization,

DATE:

TIME: 1 hour 30
minutes

MARKS: 25

SEAT NO:

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Note:-

1. All Questions are compulsory.
2. Numbers on the right indicate full marks.

Section A

Q.1 Select and write the correct answer.

(4)

1. Mitochondria present in the eukaryotic cell carry out the function of
A) respiration B) photosynthesis
C) digestion D) transpiration
2. Bacterium with tuft of flagella at one end is
A) monotrichous B) lophotrichous
C) peritrichous D) atrichous
3. Major component of cell wall in bacterial prokaryotes is a polymer of
A) cellulose B) chitin
C) xylan D) peptidoglycan
4. Nucleic acid and proteins are present in
A) ribosomes B) starch
C) insulin D) glycogen

Q.2 Answer the following.

(3)

1. How do onion peel cells and our body cells differ?
2. List the lysosomal enzymes.
3. Define Totipotency.

Section B
Attempt any Four

- Q.3 The RBC surface normally shows glycoprotein molecules. When determining blood group do they play any role? **(2)**
- Q.4 How do a combination of lenses helps in higher magnification? **(2)**
- Q.5 Lysosomes are called suicide bags. Explain. **(2)**
- Q.6 'Lysosomes are very important cell organelles in humans.' Why? **(2)**
- Q.7 Write a note on : Peroxisomes. **(2)**
- Q.8 Enlist different cell organelles present in eukaryotic cells. **(2)**

Section C
Attempt any Two

- Q.9 Explain the functions of lysosomes. **(3)**

Q.10 Write Short Note on : Ribosomes. (3)

Q.11 Write Short Notes on : Cytoskeleton (3)

Section D
Attempt any One

Q.12 What are types of plastids? (4)

Q.13 Label the A, B, C, and D in above diagram and write the functions of organelles A and B. (4)

