

1. **PLANT PHYSIOLOGY (20%)**
 a) Explain photosynthesis and explain water-potential concepts.
 b) Explain factors that affect the rate of photosynthesis and explain its limitations.

2. **THE CELL** is the basic unit of the living world. Complete the table with the missing word(s).

Word	Meaning	Location
cytoplasm	cytoplasm	
cell wall		
vacuole		
chloroplast		

3. **CELLS AND TISSUES** are the building blocks of the body. Explain the following:
 a) The plasma cell of the body.
 b) The structure of the cell wall.
 c) The structure of the cell membrane.
 d) The structure of the cell organelles.

4. **CELLS AND TISSUES** are the building blocks of the body. Explain the following:
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- The cell wall is made of cellulose.
- The cell membrane is made of phospholipids and proteins.
- The cytoplasm is a fluid matrix in which organelles are suspended.
- The nucleus is the control center of the cell.
- The chloroplast is the site of photosynthesis.
- The vacuole is a large central space that stores water and other substances.
- The cell organelles are specialized structures that perform specific functions within the cell.

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1. cytoplasm	2. cytoplasm
3. cell wall	4. cell wall
5. vacuole	6. vacuole
7. chloroplast	8. chloroplast