



( 2 )

**Unit-II**

2. Describe the ultrastructure of a chloroplast and also give an account on the function of the chloroplast.

**OR**

Write short notes on any **two** of the following :

- (a) Plant vacuole
- (b) Biogenesis of mitochondria
- (c) RNA editing

**Unit-III**

3. Describe the various check points of cell cycle. Give the role of cyclin dependent kinases.

**OR**

Write short notes on any **two** of the following :

- (a) Ribosomes : Structure and function
- (b) Nuclear pore : Ultrastructure
- (c) Programmed cell death

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**Unit-IV**

4. What are microbodies and microtubules ?  
Describe their structure and function.

**OR**

Write short notes on any **two** of the following :

- (a) Electron microscope
  - (b) Lysosomes
  - (c) Immunotechniques
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