

2021

Time : 3 Hours

Maximum Marks : 100

Candidates are required to give their answers in their own words as far as practicable.

Answer five questions, Selecting at least two from each group in which Q. No.1 is compulsory.

D-256

1. Write short notes on following: 4×5=20
 - (a) Fermentation
 - (b) Structure of Amino acid.
 - (c) Fatty acids.
 - (d) Co-enzymes and Co-factors.
 - (e) Fruit ripening hormone.

GROUP-A

2. Describe mechanism of enzyme action and factors affecting enzyme action. 20
3. What do you mean by polypeptide? Give the classification of proteins. 20
4. What are Polysaccharides? How are these classified? Give their significance for plants. 20
5. Describe the structure and function of DNA. 20

GROUP-B

6. Explain the following : 4×5=20
 - (a) Diffusion and DPD
 - (b) Osmosis and OP
 - (c) Water potential

(d) Plasmolysis

(e) Imbibition

7. Describe the mechanism of opening and closing of stomata. 20

8. Describe the fate of Pyruvic acid in aerobic condition. 20

9. Write an essay on "Photoperiodism." 20

10. Give a brief account of any two of the following:
10×2=20

(a) Auxin.

(b) Hatch and Slack pathway

(c) Transpiration pull.

(d) Two pigment systems.

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