

Q.P. Code : 26600

[Time: 2½ Hours]

[Marks:60]

Please check whether you have got the right question paper.

- N.B:
1. All questions are **compulsory**.
 2. Draw **neat labeled diagrams** wherever **necessary**.
 3. **Figures** to the **right** indicate **full** marks.

Q. 1 With reference to enzyme kinetics, explain Michaelis Menten's plot. Add a note on importance of K_m . (12)

OR

Q. 1 Explain:
i) Mode of enzyme action (06)
ii) Enzyme regulation (06)

Q. 2 Give the structure, coenzyme activity and sources of Lipoic acid and Ascorbic acid. (12)

OR

Q. 2 Give the structure, coenzyme activity and sources of Vitamin D and Vitamin K. (12)

Q. 3 What are storage proteins? Give their properties. Discuss in detail, dicot storage proteins. (12)

OR

Q. 3 Describe the outline of oxidative deamination mechanism. Add a note on its significance. (12)

Q. 4 Highlight the features of *de novo* pathway for biosynthesis of Purines. (12)

OR

Q. 4 Explain:
i) Regulation of pyrimidine biosynthesis (06)
ii) Salvage pathway for pyrimidine biosynthesis. (06)

Q. 5 Write short notes on **any three** of the following: (12)

- a) Isoenzymes
- b) Source and role of vitamin A
- c) Pantothenic acid
- d) Classification of lectins
- e) Enzymes of Transamination
- f) Functions of pyrimidines
