

(v) Molecular Scissors are :

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|--------------|-------------------|
| (a) Proteins | (b) Carbohydrates |
| (c) Fats | (d) Nucleic Acid |

(vi) Conjugated Enzymes have non protein part, called :

- | | |
|----------------|---------------|
| (a) Apoenzyme | (b) Co-factor |
| (c) Holoenzyme | (d) Zymogen |

(B) Fill in the blanks :

(vii) Fats and oils are ester of Fatty Acids and _____.

(viii) Enzymes where catalytic function is not done by Proteins _____.

(ix) Deficiency Symptoms are also known as _____.

(x) The place on enzyme where catalytic enzyme occurs _____.

(xi) Fats are rich in _____ Fatty Acids.

(xii) Pulsation theory was proposed by _____.

12×1=12

UNIT—I

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| 2. | (a) Define Osmosis. What are its types ? Demonstrate by Thistle funnel experiment. | 4 |
| | (b) Write any four significances of Transpiration. | 2 |
| 3. | (a) What is Ascent of Sap ? How will you prove that it occurs through Xylem ? | 3 |
| | (b) What will happen when plant cell is placed in Hypertonic Soln ? Name the process and write its uses. | 3 |

UNIT—II

4. Write short notes on :
- (a) Criteria for Essentiality
 - (b) Difference between Macro and Micro nutrient
 - (c) Deficiency Symptoms. 2×3=6
5. (a) What is Hydroponics ? What is its importance ? 3
- (b) Explain the passive absorption of Minerals by Ionic Exchange Process. 3

UNIT—III

6. Describe the process of Nodule formation in a legume plant. How Nodule is suitable for N_2 fixation. 6
7. (a) What are Lipids ? Describe its types. 4
- (b) Differentiate between saturated and unsaturated fatty acids. 2

UNIT—IV

8. Explain the modern system of Nomenclature and classification of Enzymes with examples. 6
9. (a) Explain the process of action of enzyme by Activation Energy. 4
- (b) Describe the structure of tertiary proteins with examples. 2