

M.Sc. (Botany) (NEP Pattern) Semester-III
03MSCBOT03 - DSC Paper-III : Plant Biochemistry

P. Pages : 1

Time : Three Hours



GUG/S/25/15954

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well labelled diagrams wherever necessary.

1. Define carbohydrates and write general classification and properties of carbohydrates. **16**

OR

Write notes on:

- a) Aldoses and Ketoses. **8**
b) Biological significance of carbohydrate. **8**

2. Write general classification and properties of lipids. **16**

OR

Write notes on:

- a) Structure of fatty acids. **8**
b) Biological functions of lipids. **8**

3. Write the classification and properties of protein. **16**

OR

Write notes on:

- a) Structure of purines and pyrimidines. **8**
b) Different forms of DNA. **8**

4. What are enzyme? Describe its nomenclature, classification & Properties. **16**

OR

Write notes on:

- a) Mechanism of enzyme action. **8**
b) Factors affecting enzyme activity. **8**

5. Write short notes on:
a) Glycoside Linkage. **4**
b) Uses of fatty acids. **4**
c) Basic structure of DNA. **4**
d) Enzyme activators and inhibitors. **4**
