

**C056**

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## **BOT-504**

**Biochemistry and Plant Physiology**

M.Sc. BOTANY(MSCBOT)

Ist Year Examination, 2022 (June)

**Time : 2 Hours]**

**Max. Marks : 80**

**Note :** This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION-A**

**(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

- 1.** Write a detailed note on structure and function of Plasma membrane.

2. Write briefly about Michaelis-Menten Kinetics and factors affecting the rate of enzyme reaction.
3. Describe various forms of structure of proteins with suitable diagrams.
4. Describe Kreb's cycle and its significance in detail.
5. Explain the mechanism of light reactions of photosynthesis.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Describe the Pentose Phosphate Pathway and explain its role.
2. Write a short note on Glycolysis.
3. Write short note on second law of Thermodynamics.
4. Describe the following :
  - (a) Functions of Carbohydrates.
  - (b) Peptide bonds.

5. Write briefly about classification of lipids.
  6. Describe the Nucleotides and Nucleosides.
  7. Explain the following :
    - (a) Seed dormancy.
    - (b) Functions of IAA and IBA.
  8. Explain the various steps in translation.
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