

M.Sc.(Botany) (NEP Pattern) Semester-II
02MSCB-1 - (DSC) Paper-I - Plant Physiology

P. Pages : 1

Time : Three Hours



GUG/W/24/15341

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate your answers with suitable diagram and examples.

- 1.** Write in detail about photo synthetic pigments. **16**
OR
Write notes on-
a) ATP synthesis in mitochondria. **8**
b) Photo respiration **8**
- 2.** Write in details about Glycolysis and its significance. **16**
OR
Write notes on-
a) Factors affecting the rate of respiration. **8**
b) Anaerobic respiration. **8**
- 3.** Write in details about mechanism of water transport through xylem. **16**
OR
Write notes on-
a) Translocation pathway through, phloem. **8**
b) Phloem loading from chloroplast to sieve elements. **8**
- 4.** Write in details about biosynthesis of alkaloids. **16**
OR
Write notes on-
a) Stomatal movement. **8**
b) Responses of plants to biotic stresses. **8**
- 5.** Write short notes on-
a) CAM pathway. **4**
b) Non-oxidative enzymes. **4**
c) Source and sink. **4**
d) Phenols. **4**
