

**Sessional Examination**  
**B.Sc. 6<sup>th</sup> Semester (M)**  
**Subject: Botany**  
**Paper: M 603**  
**(Plant Physiology)**  
**Full marks: 30**

Q. 1 Answer the following (any 4)

1×4 = 4

- a) What do you mean by nutrient?
- b) Name 2 macro nutrient
- c) What are lenticels?
- d) What is cuticular transpiration?
- e) What do you mean by photophosphorylation?
- f) What is chemosynthesis?

Q. 2 Answer the following (any 3)

2×3= 6

- a) Write a short note on classification of soil.
- b) What are the criteria of essentiality of elements?
- c) Give deficiency symptom of Nitrogen.
- d) Write the differences between C<sub>3</sub> and C<sub>4</sub> plants.
- e) Write the differences between PS-I and PS-II.

Q. 3 Write a note on (any 4)

5×4= 20

- a) Non-cyclic photophosphorylation.
- b) CAM pathway.
- c) Glycolysis
- d) Pentose phosphate pathway.
- e) Significance and factors affecting transpiration.
- f) Osmotic potential and various components of water potential.