

Exam. Code : 107403

Subject Code : 1730

B.Sc. Biotechnology 3rd Sem. (Batch 2020-23)

BOTANY-II

Paper-BTL-204

Time Allowed—3 Hours] [Maximum Marks—40

Note :- Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. What is water potential ? Describe its various components in detail.
2. What is mineral nutrition ? Write down the role and deficiency symptoms of various micronutrients.

SECTION—B

3. What are photosystems ? Give composition and function of photosystems found in plants.
4. (a) Write a brief note on 'photoprotective mechanisms'.
(b) Describe "Crassulacean Acid Metabolism (CAM)".

SECTION—C

5. Define plant pathology. Describe the various modes of transmission and control measures of plant diseases.

6. Write down the causal agents, symptoms, epidemiology and control measures of following plant diseases :
(a) Loose smut of wheat
(b) Yellow vein mosaic of bhindi.

SECTION—D

7. Discuss in detail about various biotic and abiotic interactions found in environment.
8. Define the term 'population'. With the help of suitable examples describe various population growth curves.