



NBU-003-1232001 Seat No. _____

M. Phil. (Sem. II) (CBCS) Examination

April / May - 2017

Botany : BOT - 201

(General Botany) (New Course)

Faculty Code : 003

Subject Code : 1232001

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instruction : All questions are compulsory and carry equal marks.

- 1** Answer the followings terms any seven : **14**
- a. What is Habitat? Explain
 - b. What is Community change ? Explain.
 - c. Write physiological role of magnesium, iron and molybdenum in plant growth.
 - d. What is role of phytochrome ? Explain.
 - e. Discuss importance of dark period in flowering.
 - f. What is photolysis ?
 - g. Give example of C3 plants
 - h. Explain Kranz anatomy.
 - i. What is epinasty ?
 - j. What is EMH ?
- 2** Write notes on any two of the following : **14**
- a. Biodiversity
 - b. Primary production
 - c. N cycle
- 3** Explain the following techniques : **14**
- a. Factors that affect mineral salt absorption.
 - b. What is vernalization? Explain its significance.

OR

- 3** Write notes on the following techniques in biological sciences : **14**
- a. Leaf area measurements
 - b. Growth analysis.
- 4** Write notes on the followings : **14**
- a. Explain C4 cycle
 - b. Z scheme of photosynthesis.
- 5** Answer any two of the followings : **14**
- a. Write basic protocols of Plant tissue culture.
 - b. What are the types of tissue culture ? Write their applications.
 - c. What is callus write its applications ?
 - d. What is GMO ? write its merits and demerits.
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