



NBW-003-014405 Seat No. _____

M. Sc. (Sem. IV) (CBCS) Examination

April / May - 2017

Botany : B - 423

(Salinity, Desertification & Restoration) (New Course)

Faculty Code : 003

Subject Code : 014405

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

[Total Marks : 70

Instruction : All questions are compulsory.

- 1** Answer the following : (Any seven) **14**
1. Define the term "saline soil".
 2. Define the term "derelict land".
 3. Explain recovery of forest ecosystem.
 4. Define the term "desertification".
 5. What is saline-sodic soil ?
 6. What is degraded ecosystem ?
 7. Define the term "desertization".
 8. What are osmotic effects due to salt stress ?
 9. Why indigenous plants should grow ?
 10. What are the changes in biomass with desertification ?
- 2** Discuss following questions : (Any two) **14**
1. Specific toxicity theory.
 2. Salinity and plant mineral nutrition.
 3. Properties of salt affected soil.
- 3** Write notes on following : **14**
1. Mechanism of salt resistance in plant.
 2. Changes in physical properties with desertification.

OR

1. Ion exclusion and compartmentalization reduce salinity stress.
 2. Improper use of water for irrigation in reference to desertification.
- 4 Write notes on the following : 14
1. Adaptation of plants to arid condition.
 2. What are the steps should take for desertification control ?
- 5 Write notes on the following : 14
1. What type of species should plant in desert region ?
 2. Use of microbes for impairing soil fertility.
 3. Reforestation of degraded ecosystem.
 4. Improvement of grassland ecosystem.
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