



DII-003-014405

Seat No. _____

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

May / June – 2015

**B-423 : Salinity, Desertification &
Restoration Ecology**

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**
- What are glycophytes?
 - Name salt affected soil according to chemical properties.
 - What is desertification?
 - What are halophytes?
 - What is restoration ecology?
 - What is rehabilitation of ecosystem?
 - What is saline-non sodic soil?
 - What is forest?
 - What is derelict land?
 - What is non saline-non sodic soil?
- 2. Answer the following (Any two). 14**
- Write nature of non saline-sodic soil.
 - What is mechanism of salt injury in plant?
 - Explain metabolic process when soil is saline.
- 3. Answer the following. 14**
- Explain osmotic effects on plants due to salt stress.
 - Discuss ion toxicity.
- OR**
- Discuss response on leaf area due to water deficit.
 - What is reclamation principles?
- 4. Answer the following. 14**
- How physical properties change with desertification?
 - What are the measures to combat desertification?

5. Answer the following (Any two).

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- a. Explain concept of restoration of degraded ecosystem.
 - b. Discuss stomatal action during water deficit.
 - c. Explain recovery degraded forest ecosystem.
 - d. Write notes on sand stabilization.
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