

M.Sc. 3rd Semester Examination, 2012

BOTANY

(Plant Ecology)

PAPER — BOT- 303

Full Marks : 40

Time : 2 hours

Answer **Q.No.1** and any **three** questions from the rest

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

1. Write short notes on any *five* of the following : 2×5

(i) Montreal protocol

(ii) Chipko protest

(iii) Cryopreservation

(iv) Green house effect

- (v) Ramsar site
- (vi) *Jhum* cultivation
- (vii) National park and
- (viii) Climax concept.

2. Comment on the various environmental debates surrounding Dams and *Eucalyptus* plantation. 5 + 5
3. (a) What is Eutrophication? Write the agents that cause lakes eutrophic. 2 + 3
 (b) Comment on ecological pyramids. 5
4. Define mangroves. Discuss the ecological role of Sunderbans mangroves. 3 + 7
5. What is *in-situ* conservation of biodiversity? Discuss the role of Sacred Groves in conservation of plants. 3 + 7
6. What is acid precipitation? Mention the causes leading to the formation of acid rain. Comment on the harmful effects of acid rain on forest and aquatic life. 2 + 3 + 5