

M.Sc. 3rd Semester Examination, 2014

BOTANY

PAPER – BOT-303

Full Marks : 40

Time : 2 hours

Answer Q. No. 1 and any three 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. Comment on any five of the following : 2 × 5**
- (i) Food web ;
 - (ii) Climax concept ;
 - (iii) Deep ecology ;

(Turn Over)

- (iv) CITES ;
- (v) Invasive species ;
- (vi) Crypto-vivipary ;
- (vii) Ramsar site ; and
- (viii) Ecotone.

2. Comment on the debates surrounding *Eucalyptus* plantation in India. Write the salient features of Chipko movement. 5 + 5

3. What is greenhouse effect ? Name three greenhouse gases. Discuss about the rising of atmospheric CO₂ on environment. 2 + 3 + 5

4. What is acid rain ? Differentiate between dry precipitation and wet precipitation. Discuss the harmful impact of acid rain on forest and aquatic life. $2 + \left(1\frac{1}{2} + 1\frac{1}{2}\right) + 2\frac{1}{2} + 2\frac{1}{2}$

5. Define biodiversity. Mention the reasons for the loss of Indian biodiversity. Comment on the *in situ* conservation of biodiversity. 2 + 3 + 5

(3)

6. Write short notes (any *two*) of the following : 5 × 2

(i) Shifting cultivation ;

(ii) Chapman cycle ;

(iii) Xerophytes ; and

(iv) Ecological value of mangroves.
