

M.Sc. 3rd Semester Examination, 2010

BOTANY

PAPER—XV

Full Marks : 40

Time : 2 hours

Answer all questions

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 the following (any five) : 1 x 5

(a) Food Web

(b) Ozone Hole

(c) Edge effect

(Turn Over)

- (d) Bhopal disaster
- (e) Montreal protocol
- (f) Smog
- (g) Exotic species
- (h) Traditional Ecological Knowledge.

2. Write notes on any *two* of the following : $2\frac{1}{2} \times 2$

- (i) Ramsar site
- (ii) National Park
- (iii) Oligotrophic and Eutrophic lakes
- (iv) Ecological Niche.

3. Answer any *three* of the following :

- (a) Define mangrove. Mention the mangrove-growing states of India. Comment on the soil-building property of mangroves. 2 + 4 + 4

- (b) Define plant succession. Describe briefly the different stages of hydrosere with examples. $3 + 7$
- (c) What is Acid precipitation ? Discuss the harmful effects of acid rain on aquatic and forest ecosystems. $3 + (3\frac{1}{2} + 3\frac{1}{2})$
- (d) Define greenhouse effect. Name three major greenhouse gases. Discuss the impact of global warming on human health. $3 + 3 + 4$
- (e) Write short notes on any *two* of the following : $5 + 5$
- (i) Chipko protest
 - (ii) Biochemical adaptation of aquatic plants
 - (iii) Ecological Pyramids.
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