

2017

M.Sc.

3rd Semester Examination

BOTANY

PAPER—BOT-303

Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

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

Illustrate the answers wherever necessary.

Answer All questions.

1. Write short notes on any five of the following : 5×2
- (a) Ramsar sites ;
 - (b) Niche ;
 - (c) *Silent spring* ;
 - (d) Food chain ;
 - (e) Phytoremediation ;

(Turn Over)

- (f) Climax concept ;
- (g) Eutrophication ; and
- (h) *r*-and *k*-strategy.

2. Comment on the following (any two) : 2×5

- (a) Chipko movement ;
- (b) Eucalyptus debate ; and
- (c) Environmental hazard ;

3. Answer any two questions of the following : 2×10

- (a) Define biodiversity at various levels. Write three major reasons for the threat to biodiversity. Discuss the role of Wildlife Sanctuary and National Park for the conservation of biodiversity. 2+2+6
- (b) Define mangrove. What is cryptovivipery ? Discuss on the physiological adaptation of mangroves.
- (c) Differentiate between Ozone depletion and "Ozone hole" formation. Write the different factors leading to "Ozone hole" formation. Depict Chapman cycle. (2+2)+4+2
- (d) What is Acid rain ? Discuss the harmful effect of acid rain on aquatic and forest ecosystems. Comment on dry acid precipitation. 2+(3+3)+2