2015

1115111777

M.Sc.

3rd Semester Examination

BOTANY

PAPER-BOT-303

Full Marks: 40

Time: 2 Hours

The figures in the right-hand 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 Q. No. 1 and any three of the rest.

1. Comment on any five of the following:

5×2

- (i) Edge effect;
- (ii) Silent Spring;
- (iii) Greenhouse gases;
- (iv) Climax concept;

- (v) Ex-situ conservation;
- (vi) Ramsar convention;
- (vii) National park;
- (viii) SAM mode of photosynthesis.
- 2. Depict the various steps of shifting cultivation. Comment on the harmful effects of shortened jhum cycle on environment.

 5+5
- 3. What is ozone hole? What is O₃ hole is restricted in polar regions? Write the role of CFCs in ozone depletion.

3+4+3

- 4. Define mangroves. Discuss the various physiological adaptation in mangrove plants. 3+7
- 5. Define Wetlands. Discuss the various role of wetlands in water purification and biodiversity protection. 2+(4+4)
- **6.** Write short notes any two of the following: 5×2
 - (a) Grazing Food Web;
 - (b) Salient Valley Movement;
 - (c) Ecological niche;
 - (d) Invasive species and biodiversity loss.