# 2017

### M.Sc.

# 3rd Semester Examination

### **BOTANY**

PAPER-BOT-304

(ELECTIVE-II : PLANT & SOCIETY)

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.

# Unit-I

(Plant and Environment)

[Marks : 20]

1. Write short notes on any four of the following:  $4 \times 1$ 

(a) Which date is celebrated as Environment Day?

(Turn. Over)

- (b) What is Bio Monitoring?
- (c) What is Food chain?
- (d) What is Phytoremediation?
- (e) Name one mangrove species.
- (f) What is GM Crop?
- (g) Name one phytoplankton.
- 2. Comment on the following (any two):

 $2 \times 3$ 

- (a) Ramsar site;
- (b) Ecosystem; and
- (c) Social value of Biodiversity.
- 3. Answer any one question of the following:

1×10

- (a) Define wetlands. Write the ecological value of wetlands.

  3+7
- (b) Define biodiversity. Discuss the different steps of in-situ conservation of biodiversity in India. 3+7

#### Unit-II

(Contrinbutions of modern techniques in plant sciences)

[Marks : 20]

4. Answer any four questions:

1×4

- (a) What is transgenesis?
- (b) What is novel rot?
- (c) What is hop?
- (d) What is Chocolate pudding?
- (e) Name one starchy plant material used in production of biofuel.
- (f) What is whey?
- (g) Give example of a soft cheese.
- 5. Answer any two of the following:

 $2 \times 3$ 

- (a) Mention the utility of fermented food.
- (b) Mention different ingradients for the production of nice pudding.
- (c) Mention any two methods of sausage production.

6. Answer any one question of the following:

- 1×10
- (a) Write down the steps for the production process of wine. Mention raw materials and the microorganisms used for wine production. What is sweet dessert wine?
- (b) (i) Mention the process for the production of biodiesel using different sources of raw materials.
  - (ii) Mention the steps for cheese production. 5+5