

M.Sc. 3rd Semester Examination, 2018

BOTANY

PAPER – BOT-304 (CBCS)

Full Marks : 40

Time : 2 hours

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

UNIT – I

(Plant and Environment)

[Marks : 20]

1. Answer any *two* of the following : 2 × 2
- (a) Name two invasive plant species.
 - (b) What is food-web ?
 - (c) Distinguish between wetland and wasteland.

(Turn Over)

(2)

(d) What are the different levels of consumers in a complex ecosystem ?

2. Write short notes on any *two* of the following : 4×2

(i) National Park

(ii) Biomonitoring

(iii) Social ecology

(iv) Plant and ecological balance.

3. Answer any *one* question of the following : 8×1

(a) Define mangroves. Write briefly the ecological value of mangroves. Name two mangrove species. $2 + 4 + 2$

(b) Discuss various modes for conservation of biodiversity. Mention the significance of biodiversity conservation. $6 + 2$

UNIT – II

*(Contribution of Modern Techniques in
Plant Sciences)*

[Marks : 20]

4. Answer any *two* questions : 2 × 2
- (a) What are different materials used in casing of sausage ?
 - (b) Name two microorganisms found in curd.
 - (c) Give example of two petro crops.
 - (d) What is transgene ? Name a GM fruit.
5. Write short notes on (any *two*) : 4 × 2
- (i) Pudding
 - (ii) Improvement of plant varieties through biotechnology
 - (iii) Biodiesel
 - (iv) Rainbow Papaya.
6. Answer any *one* question : 8 × 1
- (a) Write down different steps for cheese production. Name a ripened cheese and mention the microorganism used in its production. What is red wine ? 4 + 2 + 2

(4)

(b) What is Golden rice ? Give a brief account on the construction of this transgenic crop.

2 + 6
