

B.Sc. CBCS Pattern Semester-VI
012E - Botany Paper-II : Plant Diversity & Conservation-II

P. Pages : 2

Time : Three Hours



GUG/W/23/13328

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well labelled diagram wherever necessary.

1. Write on:
- a) Define conservation. Write detail action plan of conservation. 5
- b) Explain in details values & ethics of conservation. 5

OR

Write a short note on:

- c) Environment protection Act 1986. 2½
- d) Wildlife protection act 1971. 2½
- e) Inventorisation of Biological resources. 2½
- f) Importance of Biodiversity. 2½
2. a) In-situ conservation? 5
- b) Conservation NGO movements in India. 5

OR

Write a note on:

- c) Botanical Gardens. 2½
- d) Sanctuaries. 2½
- e) ATREE. 2½
- f) Biosphere reserve. 2½
3. a) Composition & preparation of MS media. 5
- b) Types of sterilization techniques. 5

OR

Write a note on:

- c) Phytohormones in tissue culture. 2½

- d) Scope of plant tissue culture. 2½
- e) Gamborgs media. 2½
- f) Laboratory requirement of plant tissue culture. 2½
- 4. a) Write on In vitro propagation for ornamental plants. 5
- b) Recent applications of tissue culture techniques in Medicinal plants. 5

OR

Write a note on:

- c) Superior biotypes of orchids. 2½
 - d) Application of tissue culture in Agriculture. 2½
 - e) Superior biotypes of Roses. 2½
 - f) Tissue culture in horticulture plants. 2½
 - 5. Write **any ten** questions in one or two lines only. (Diagrams are not necessary). 10
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| a) Wildlife. | b) Biodiversity. |
| c) Biological resources. | d) WWF. |
| e) Seed banks. | f) Buffer zone. |
| g) Anther culture. | h) Explant. |
| i) Auxin. | j) Secondary metabolites. |
| k) Clonal propagation. | l) BT-Cotton. |
