

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

P. Pages : 2

Time : Three Hours



GUG/W/24/13328

Max. Marks : 50

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

1. Write on:
a) Concept of forest and wild life conservation. 5

b) Environmental protection act 1986. 5

OR

Write short notes on:

c) Type of conservation (in brief) 2½

d) Conservation value and ethics 2½

e) Action plan of conservation 2½

f) Wild life protection act 1971 2½

2. Write on:
a) Wild life sanctuaries 5

b) Botanical garden in India. 5

OR

Write short notes on:

c) Ranthambor National Park 2½

d) Kaziranga National Park 2½

e) Seed Bank 2½

f) Chipko movement 2½

3. Write on:
a) Constitution of Culture media preparation. 5

b) Basic technique in plant tissue culture. 5

OR

Write short notes on:

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| c) Dry heat sterilization (hot air oven) | 2½ |
| d) Concept and scope of Tissue Culture. | 2½ |
| e) M. S. Culture media | 2½ |
| f) Cytokinin in tissue culture | 2½ |

4. Write on:

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|---|---|
| a) Economical important traits in Horticulture. | 5 |
| b) Technique of micropropagation. | 5 |

OR

Write short notes on:

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| c) Superior biotype of orchids | 2½ |
| d) Economic important traits in medicinal plant. | 2½ |
| e) Application of tissue culture technique. | 2½ |
| f) Organogenesis | 2½ |

5. Write in two to three line only diagram is not necessary (**any ten**). **10**

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|--------------|-----------------|
| a) Forest | b) Conservation |
| c) Ethics | d) WWF |
| e) In vitro | f) Cryobanks |
| g) Vitamin | h) Totipotency |
| i) Callus | j) Biotype |
| k) Germplasm | l) Cloning |
