

B.Sc.-I (NEP) Semester-II
BSCBO601 - Botany Paper-II - Basic Botany II

P. Pages : 2

Time : Two Hours



GUG/S/25/16771

Max. Marks : 40

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

1. Write in detail. **2x4**
=8

- a) Define & explain methods of Plant Breeding.
- b) What are the Biofertilizers? Explain Biofertilizers uses.

OR

- c) Define and explain the concept of Biomimicry.
- d) What are the Biosensors? Explain it with suitable examples.

2. Write in detail. **2x4**
=8

- a) What is remote sensing? Explain the concept of Remote Sensing in Botany.
- b) Define and explain concept of four dimensional imaging in Plant Science.

OR

- c) Define Angiosperm Phylogeny Groups & explain its application in plant science.
- d) Give applications of Advanced Herbal Technology.

3. Write in short. **4x2**
=8

- a) Modern plant Breeding.
- b) Applications of tissue culture.
- c) Plants as a bioindicator.
- d) Concept of Epigenomics.

OR

- e) Concept of Bioinformatics.
- f) Genetic engineering.
- g) Molecular Biology.
- h) Recombinant DNA technology.

4. Write in short. 4x2
=8
- a) Biodiversity mapping.
 - b) Forest Monitoring.
 - c) Definition and concept of Digital herbarium.
 - d) Importance of Virtual Herbarium.

OR

- e) Scope and application of advanced phytochemistry.
 - f) Application of Environmental DNA.
 - g) Concept of Advanced Herbal Technology.
 - h) Principles of APG.
5. Write in one or two lines **any eight** (Diagrams are not necessary). 8
- a) Hybrids.
 - b) Mutagen.
 - c) Cyanobacteria.
 - d) Biomimetics.
 - e) Glucometer.
 - f) Chimeric DNA.
 - g) Phenology.
 - h) Invasive species.
 - i) Herbscan.
 - j) Biodiversity.
 - k) eDNA.
 - l) Biopesticides.
