

# DD-774

## M. Sc. (Fourth Semester) EXAMINATION, 2020

BOTANY

Paper Second

(Plant Ecology)

(Pollution Biodiversity Conservation)

*Time : Three Hours*

*Maximum Marks : 80*

**Note :** Attempt all the *five* questions. All questions carry equal marks. First question is based on complete syllabus with no internal choice whereas rest *four* questions are Unitwise.

1. Write short notes on the following : 4 each
  - (a) Major biomes of the world
  - (b) Ozone layer and ozone hole
  - (c) IUCN categories of threat
  - (d) Activities of Botanical Survey of India (BSI)

### Unit—I

2. Describe the major soil types of the world. 16

*Or*

Write short notes on any *two* of the following : 8 each

- (a) Tropical Forest
- (b) Life Zones
- (c) Grassland vegetation

**Unit—II**

3. Describe water pollution under the following heads :

4 each

- (a) Sources
- (b) Quality Parameters
- (c) Effects on aquatic ecosystem
- (d) Control measures

*Or*

Write short notes on any *two* of the following : 8 each

- (a) Carbon dioxide fertilization
- (b) Sea level rise
- (c) Green house gases

**Unit—III**

4. What is biodiversity ? Describe the concept and levels of biodiversity and its roles in ecosystem functions and stability. 16

*Or*

Write short notes on any *two* of the following : 8 each

- (a) Terrestrial biodiversity
- (b) Inventory
- (c) The Indo-Burmese center

**Unit—IV**

5. What are the two basic strategies of biodiversity conservation ? Explain in brief. 16

*Or*

Write short notes on any *two* of the following : 8 each

- (a) Mangroves and coral reefs
- (b) Cryopreservation/cryobanks
- (c) National Parks