

Roll No. ....

Total Pages : 2

**GSQ/D-21**

**1077**

**BOTANY**  
**(Ecology)**  
**Paper-II**

Time : Three Hours]

[Maximum Marks : 40

**Note :** Attempt five questions in all, selecting *two* question from each unit. Question number 1 is compulsory.

**Compulsory Question**

**1.** Briefly write about :

- (a) Topographic factors.
- (b) Xerophytes.
- (c) Soil profiles.
- (d) Ecological natality.
- (e) Green-house-effect.
- (f) Dominance in a community.
- (g) Trophic levels.
- (h) Detritus food-chain.

(1x8=8)

**UNIT-I**

**2.** What are environmental factors? Explain the role of temperature as a climatic factor. (8)

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[P.T.O.]

3. Write notes on :
- (a) Physico-chemical properties of soil.
  - (b) Population growth curves. (4+4)
4. Explain ecological adaptations in xerophytes and halophytes. (8)
5. What are different types of species interactions? Giving suitable examples write about any *three* of them. (8)

## UNIT-II

6. What is ecological succession? Explain different stages in a typical hydrosere. (8)
7. Write notes on :
- (a) Nitrogen cycle.
  - (b) Effects and control of global warming. (4+4)
8. What are the causes, impacts and control measures of water pollution? (8)
9. Write short notes on :
- (a) Ecological pyramids.
  - (b) Major forest types of India. (4+4)
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