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**ST—496—2022**

**FACULTY OF SCIENCE**

**M.Sc. (First Year) (Second Semester) EXAMINATION**

**JUNE/JULY, 2022**

**(CBCS/New Pattern)**

**BOTANY**

**Paper IX**

**(Plant Ecology, Environmental Biology and Phytogeography)**

**(Wednesday, 6-7-2022)**

**Time : 9.30 a.m. to 1.15 p.m.**

*Time—3.45 Hours*

*Maximum Marks—75*

*N.B. :— (i) All questions are compulsory.*

*(ii) All questions carry equal marks.*

1. Write in brief structure and functions of ecosystem. 15

*Or*

Write in brief ecological pyramid, food web and food chain.

2. Describe in detail concept of metapopulation. 15

*Or*

Describe in detail levels of species diversity and its measurements.

3. Define thermal pollution and describe their causes, effect and control measures of thermal pollution. 15

*Or*

Describe rain water harvesting in detail.

P.T.O.

4. Define phytogeography and describe phytogeographical regions of India in detail. 15

Or

Describe in brief Afforestation and Defforestation.

5. Write short notes on (any *three*) : 15
- (a) Ozone layer
  - (b) Global warming
  - (c) Food chain
  - (d) Ecological importance of forest.