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NEPWT—273—2024

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2024

BOTANY

Paper-SBOTE-1451

(Plant Ecology, Environmental Biology and Phytogeography)

(Wednesday, 18-12-2024)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—60

Note :— (i) Question No. 1 compulsory.

(ii) Of the remaining, attempt any *three* questions.

(iii) Draw neat and labelled diagram wherever required.

1. Write brief notes on any *three* : 15

(a) Scope of ecology in India.

(b) What is ecotone ? Write a note on characteristics of ecotone

(c) Ozone layer

(d) Land bridge.

2. Describe in brief :

(a) Carbon cycle 8

(b) Methods of estimating primary production. 7

P.T.O.

3. Explain in brief :

(a) What is ecological succession ? Describe mechanism and its types. 8

(b) Population growth curve. 7

4. Describe in brief :

(a) Causes, effects and control measures of soil pollution. 8

(b) Urban problems related to energy. 7

5. Explain in brief :

(a) What is social forestry ? Add a note on afforestation and deforestation. 8

(b) Continental drift theories. 7

6. Write short notes on any *three* : 15

(a) Food web

(b) Age pyramids

(c) Phytoremediation

(d) Theory of tolerance.