

M-6632

M.Sc. (IIIrd Semester) Examination, 2020

BOTANY

(Principles of Ecology)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Pass Marks : 28

Note : Attempt all the questions as directed. All questions carry equal marks. Answer neatly and briefly (any five).

Q. 1. Write a note on limits of population growth. Write a short note on competition & coexistence. **10+4=14**

Q. 2. Write short notes on (any two) : **7×2=14**

(a) Biogeochemical cycle

(b) Impact of climate on Biomes

(c) Global Warming

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P.T.O.

(2)

Q. 3. Write a detail note on conservation & management of biodiversity in India. **14**

Q. 4. Write a note on use of fertilizer, pesticides & other chemicals in agriculture & hygiene & their disposal. **14**

Q. 5. Discuss in detail about the molecular approach to behavioral ecology. **14**

Q. 6. Write short notes on (any two) : **7×2=14**

(a) Phylogeography

(b) Conservation genetics

(c) Sustainable development

Q. 7. Discuss on acclimatization & adaptive responses of conifers to environmental stressors. **14**

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(3)

Q. 8. Write short notes on (any two) : **7×2=14**

(a) Conifer plantation as seed trap

(b) Impact of coniferous forest on human life

(c) Letter decomposition rate

Q. 9. Discuss in detail on management of natural
resources. **14**

