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7216

Roll No

M. Sc. / II

ENVIRONMENTAL BIOLOGY- Paper VI

(Community Ecology, Ecosystem Dynamics and Modelling)

Time 3 hours

Maximum Marks 45

(Write your Roll No on the top immediately on receipt of this question paper)

Attempt all questions

1. Attempt any five 5 x 5

(i) Discuss Clement's and Gleason's view of describing plant communities

(ii) Discuss the various hypotheses that have been put forward to explain succession

(iii) Mention different methods used to estimate the primary productivity in aquatic ecosystems

(iv) What are drought tolerant and drought resistant plants Describe some of the adaptions shown by these plants

(v) Briefly describe Raunkaier's life forms

(vi) Discuss Enemy Release Hypothesis

(vii) Discuss the biochemical basis of plant competition

2 Attempt any five 5 x 4

(i) Discuss the causes and consequences of human alteration of nitrogen cycle

(ii) Discuss 'Evolution of Increased Competitive Ability' and Novel Weapons Hypothesis' in relation to invasion success of an exotic plant

(iii) Describe detritus food chain by taking an example

(iv) Discuss Grime's CSR triangle in context of primary plant strategies.

(v) Explain Leibig law of minimum and Shelford law of tolerance

(vi) Resource-ratio hypothesis of plant competition and its alternate view

(vii) Homeostasis of the ecosystem