

A-0023

Total Pages : 3

Roll No.

MSCBOT-607

M.Sc. Botany (MSCBOT)

Forest Ecology (Elective Course)

Examination, June 2025

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

SECTION-A

(Long Answer Type Questions) 2×19=38

Note :- Section 'A' contains Five (05) long-answer type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

1. What is forest litter ? Discuss types and factors affecting forest litter ?
2. Describe about forest succession with reference to Himalayan forest ecosystem.
3. Giving an example of food chain discuss energy flow in ecosystem.
4. Briefly describe about Pine and Oak forests and their importance.
5. Discuss different methods of biomass measurement in forest ecosystem.

SECTION–B

(Short Answer Type Questions) 4×8=32

Note :- Section 'B' contains eight (08) short-answer type questions of Eight (08) marks each. Learners are required to answer any *Four* (04) questions only.

1. Write a short note on primary and secondary productivity ?
2. With the help of well labeled diagram explain carbon cycle ?
3. Write a short note on nutrient uptake and storage in forest ecosystem ?

4. Briefly discuss about role of water in nutrient cycling.
5. Provide an analysis of nutrient loss due to fire.
6. Define the term decomposers. Mention about the process of decomposition.
7. What do you understand by shifting and settled agriculture ?
8. Discuss about water discharge from watersheds.
