

A-0023

Total Pages : 3

Roll No.

MSCBOT-607

M.Sc. BOTANY (MSCBOT)

(Forest Ecology) (Elective Course)

4th Semester Examination, Session December 2024

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. Describe about photosynthetic pathway and their significance.
2. Mention about any four methods utilized for measurement of litter decomposition.
3. Describe about different types of ecological successions.
4. What is a biogeochemical cycle ? Explain giving example of nitrogen cycle.
5. Briefly discuss about major forest types of Himalayan region.

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. Describe about detritus food chain.
2. Analyze how nutrient loss occurs due to forest harvest.
3. Describe about shifting cultivation.
4. Briefly discuss about impact of forest on precipitation apportionment.

5. What do you understand by primary productivity and efficient nutrient utilization ?
6. How does climate change effect forest ecosystem ?
7. In your own words mention the importance of forests.
8. Discuss about nutrient conserving adaptation in oilgotrophic soils.
