

KATHMANDU UNIVERSITY
End Semester Examination
May/June, 2022

Marks scored:

Level : B.Sc.

Year : II

Exam Roll No. :

Time: 30 mins.

Course : ENVS 203

Semester : II

F. M. : 20

Registration No.:

Date :

SECTION "A"

[20Q × 0.5 = 10 marks]

Mark [×] in the appropriate answer box.

- Biological agencies which influence the growth and development of vegetation are:
 Physiographic factors Biotic factors
 Topographic factors Consumers
- Driving force of a forest is:
 Producers Carbohydrates in plants
 Solar energy Biomass
- If decomposers are completely remove from the forest, the functioning of the forest will be adversely affected because:
 Herbivores will not receive solar energy
 Rate of decomposition of other components will be very high
 Mineral movement will be blocked
 Energy flow will be blocked
- In a heterospecies association, if both species are benefited and neither is harmed, it is said to be:
 Competition Symbiosis Parasites Exploitation
- Which one is not an insect pest?
 Sal borer Teak defoliator
 Teak skeletonizer Wild boars
- Which of the following anthropogenic activities does not lead to forest loss?
 Shifting cultivation Grazing and lopping
 Deforestation Weeding
- Plants which live constantly in wet sites are:
 Mesophytes Hydrophytes Hygrophilic Hygroscopic
- Process of harvesting, conversion and disposal of forest product is:
 Forest management Forest exploitation
 Forest protection Forest utilization

SECTION "B"
[10Q × 1 = 10 Marks]

Define the following terms.

21. Improved felling
22. Phototropism
23. Girdling
24. Bud pruning
25. Pollarding
26. Dendrochronology
27. Silvics
28. Forest mensuration
29. LiDAR
30. Tree lines



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SECTION "C"
[3Q. × 7 = 21 marks]

Attempt *ANY THREE* questions.

1. Describe the types of forests of Nepal based on vegetation.
2. Explain the evolution of community forestry in Nepal.
3. Describe the elements of sustainable forestry.
4. Point out the geospatial application in forestry.

SECTION "D"

5. Write short notes on (*ANY FIVE*): [5Q. × 4 = 20 marks]
 - a. Forest protection
 - b. General rules of felling
 - c. Bio-briquette technology
 - d. Non-timber forest products
 - e. Rotation period
 - f. Natural and artificial regeneration
6. Distinguish between: [3Q. × 3 = 9 marks]
 - a. Weeding and cleaning
 - b. Single tree selection and group tree selection
 - c. Symbiosis and parasitism
7. How agroforestry is associated to social, economic and ecological aspect on a sustainable basis? [5 marks]

