

KATHMANDU UNIVERSITY
End Semester Examination
January/February 2024

Marks Scored:

Level : B.Sc.

Year : II

Exam Roll No. :

Registration No.:

09 FEB 2024

Time: 30 mins.

Course : ENVS 203

Semester : II

F. M. : 20

Date :

SECTION "A"

[20Q. × 0.5 = 10 marks]

Choose and mark [X] the most appropriate answer.

- Competition for light is most intense among the plants of a
 Tropical rainforest in any season
 Tropical deciduous forest in the rainy season
 Temperate deciduous forest in summer season
 Coniferous forest in the autumn season
- The flame of the forest refers to:
 Lady with flame in her hands in the forest
 A forest with full of trees which burst with red flowers during the autumn
 A fire in the forest caused by artificial causes
 A title of a book discussing forest fires
- Identification and certification of forest is provided by
 TCN KATH DPR NTFPs
- Which of the following functions performed by a forest help most in controlling drought?
 Forests prevent soil erosion Forests bring rainfall
 Forests have lot of water plants Forests act as water sheds
- Deforestation has an alarming effect on:
 Soil erosion Weed control Sunlight Increase in grazing area
- Forests are known as purifiers of air due to process of
 Respiration Transpiration Photosynthesis Desiccation
- Point out the plant that has invaded many forest lands in different parts of Nepal, and strongly compete with the native species:
 Withania semnifera *Solanum nigrum*
 Lantana camera *Quisqualis indica*
- The effect of individuals of the same species upon each other is called as
 Reaction Competition Coaction Ecesis
- Which of the following act and regulation clarifies the handing over of forest to FUGs?
 Act 1993 and Regulation 1993 Act 1992 and Regulation 1995
 Act 1994 and Regulation 1995 Act 1993 and Regulation 1995

SECTION "B"
[10 Q × 1 = 10 marks]

Define the following terms.

21. Tree lines

22. Improved felling

23. Phototropism

24. Girdling

25. Bud pruning

26. Pollarding

27. Dendrochronology

28. Forest mensuration

29. LiDAR

30. Silvics

KATHMANDU UNIVERSITY
End Semester Examination
January/February 2024

Level : B.Sc.
Year : II
Time : 2 hrs. 30 mins.

09 FEB 2024

Course : ENVS 203
Semester : II
F.M. : 55

SECTION "C"

[3 Q. × 7 = 21 marks]

Attempt *ANY THREE* questions.

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

SECTION "D"

5. Write Short note on *ANY FIVE*. [5Q. × 4 = 20]
 - a. Forest economics
 - b. General rules of felling
 - c. Bio-briquette technology
 - d. Non-timber forest products
 - e. Rotation period
 - f. Role of forests to mitigate climate change
6. Distinguish between: [3Q. × 3 = 9]
 - a. Cleaning and Weeding
 - b. Single tree selection and group tree selection
 - c. Symbiosis and parasitism
7. Define agroforestry. How is agroforestry associated to social, economic and ecological aspect on a sustainable basis? [5]

100-331-6