

10. Which of the following assessment should be carried out if 5 hectare of forest is converted to agricultural land in the mountain region?
a. BES b. IEE c. EIA d. None of above

Fill in the blanks.

11. The study of individual species' behavior and its adaptations at every stage of the life cycle is called as _____.
12. Phototoxicity, retards plant growth and even kills seedlings, is caused due to _____.
13. The increase in earth's surface temperature due to greenhouse gases is called _____.
14. A macronutrient and one of the essential plant nutrients that causes purpling in the stem when it is deficient in the soil is _____.
15. The three major greenhouse gases contributing 88% of global warming on the earth are
a) _____ b) _____ c) _____
16. Energy flow, nutrient cycling, population regulating mechanism etc are the components of _____.
17. A sequence of organisms, each of which uses the next, lower member of the sequence as a food source is called as _____.
18. _____ focuses on long-term food production while maintaining environmental health and economic profitability.
19. _____ is the output of valued product per unit of resource input.
20. EIA is mentioned in the scheduled 2 of the _____.

KATHMANDU UNIVERSITY
End Semester Examination [C]
December, 2024

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

13-Dec.

Course : AGES 201
Semester : I
F.M. : 55

SECTION "B"
[39 marks]

Attempt *ANY SEVEN* questions. (Q.N. 8 is compulsory)

1. Define ecology. List out the principles of agroecology. [6]
2. Write about the differences between [6]
 - a. Macronutrients and micronutrients
 - b. Primary air pollutants and secondary air pollutants
3. What are the effects of water pollution on plants and soil? Elaborate them. [6]
4. What are essential plant nutrients? Describe with examples. [6]
5. List out various adaptation measures practiced by Nepalese farmers to combat climate change. [6]
6. Describe the interaction of various agrobiodiversity components of the paddy ecosystem. [6]
7. Why do we carry out IEE or EIA before project execution? [6]
8. Short note on Organic Farming. [3]

SECTION "C"
[2Q × 8 = 16 marks]

Attempt *ANY TWO* questions.

9. Describe the various environmental issues that we are facing today. [8]
10. Climate change has detrimental impacts on the agriculture sector in Nepal. Justify it. How do Nepalese farmers perceive climate? [4+4]
11. Define sustainable agriculture. What is the goal of sustainable agriculture? Describe the elements of sustainable agriculture. [2+1+5]

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