

B.Sc. 3rd Semester (Honour's) Examination-2021
FORESTRY

Course ID: 33504

Course Code: SH/FST/NR2107

Course Title: Forest Ecology and Biodiversity

Time: 2 Hours

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

I. Write a definition or one sentence answer any 10 of the following 1x10=10

1. Flora
2. Community
3. What is mutualistic association
4. Environment
5. Factor
6. Red data book
7. Ecotone
8. Define commensalism
9. Food chain
10. Mention two national parks in West Bengal.
11. What is natality
12. How many biological hotspot presence in the India
13. Mention two critically endangered wildlife
14. Name the full form of NABARD
15. Immigration

II. Write short note/ define any 10 of the following 2x10 =20

1. Food web
2. What is carrying capacity?
3. What do you mean by - - interaction
4. Community ecology
5. What do you mean by allogenic succession
6. Distinguish between ex-situ and in-situ conservation
7. What is top down effect?
8. Write a short note inverted pyramid
9. Decomposer

10. What is succession?
11. What is CITES?
12. Write a short note key stone species
13. What is ecological niche?
14. Name two national park in west Bengal
15. Prey and predator relationship

III. Write down in brief any four (4) of the following

5x4=20

1. What is age pyramid? Describe the three hypothetical age pyramids type with diagrams?
2. Explain the y shaped energy flow model
3. Discuss plant succession
4. Briefly describe island biogeography
5. Explain ecological and economical importance of biodiversity
6. What is synecology ? Briefly describe various types of food pyramid?