FYUGP/Sem-6/BT-CE3

2026

Botany (Core)

Paper Code : BT-CE-6334

Paper Name : Natural Resources Management

Time : 2 hours ***Full Marks : 50***

The figures in the margin indicate full marks for the questions.

1. Answer the following questions : 1×4=4
   a) What do you mean by carbon foot print ?
   b) What is a hydrological cycle ?
   c) Write the full form of GIS.
   d) Manas National Park is an example of in-situ/ ex-situ conservation. (Choose the correct option)
2. Answer the following questions : 2×3=6
   a) What do you mean by watershed management ?
   b) Name two physical factor that influences aquatic ecosystem dynamics.
   c) What are sustainable development goals ?
3. Answer the following questions ***(any two)*** : 5×2=10
   a) Describe briefly about participatory resource appraisal ?
   b) Describe the in-situ conservation process of biodiversity.
   c) Write briefly on forest inventory and remote sensing. Mention the techniques for forest inventory.
   d) Write briefly on community based forest management and wildlife management.

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4. Answer the following questions ***(any three)*** : 10×3=30

a) Describe briefly the role of SIA, GPS, GIS and remote sensing applications in resource mapping ? 6+4=10

b) Write briefly on forest ecosystems and their components and their importance for biodiversity and climate ? 6+4=10

c) Write briefly on aquatic ecosystems and their dynamics ? Mention briefly the laws and regulations related to water resources and strategies for water conservation and management. 5+5=10

d) Mention the types of land utilization and write briefly on soil degradation and its management ? Describe briefly on the environmental impact assessment process and methodologies. 2+3+5=10

e) What is enviormnental economics and write briefly on the principles of environmental economics ? Mention briefly about the valuation of natural resources. 7+3=10

f) Define water quality and water pollution. Explain briefly the water conservation and management. 2+8=10

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