

B.B.A. (Forest Management and Eco-Tourism) CBCS Pattern Semester-III
BBA035 - Forest Resource Assessment and Technology

P. Pages : 2

Time : Two Hours



GUG/S/25/16185A

Max. Marks : 70

- 1.** Answer the following questions **any four**. **4x7**
=28
- 1) Define forest management and explain its key objectives.
 - 2) Discuss the principles of sustainable forest management and their importance.
 - 3) Explain the concept of sustained yield and its application in forest management.
 - 4) Describe the process of GIS-based forest resource mapping and its significance.
 - 5) Explain how Remote Sensing and GIS can be integrated for effective forest conservation.
 - 6) Discuss the economic importance of Non-Timber Forest Products (NTFPs) in rural development.
 - 7) Explain the concept of sustainable harvesting of NTFPs with examples.
 - 8) Describe the role of community participation in the management of NTFPs.
- 2.** Answer the following questions **any four**. **4x3**
=12
- 1) Explain the use of remote sensing techniques for forest canopy analysis and health monitoring.
 - 2) Outline the steps involved in conducting a forest inventory using GIS technology.
 - 3) How can remote sensing be used to monitor deforestation and forest degradation?
 - 4) Explain how NTFPs contribute to poverty alleviation in forest-dependent communities.
 - 5) Discuss the importance of agroforestry in the sustainable management of NTFPs.
 - 6) Describe the process of vegetation analysis using remote sensing indices like NDVI.
 - 7) Explain the significance of hyperspectral sensors in forest health monitoring.
 - 8) Discuss the types of satellite data commonly used for forest assessment and their advantages.
- 3.** Answer the following questions. **1x8**
=8
- 1) What is forest management?

- 2) What does GIS stand for?
- 3) Name two remote sensing techniques used in forestry.
- 4) Give one example of a plant-based NTFP.
- 5) What is the primary goal of sustained yield forestry?
- 6) What does NDVI measure?
- 7) Name one remote sensing sensor commonly used for forest health analysis.
- 8) Define ecosystem services.

4. Fill in the blanks.

**1x6
=6**

- 1) The method used to evaluate forest health using satellite data is-----
- 2) The primary objective of----- forestry is to balance resource use with conservation.
- 3) ----- is used to assess vegetation health through remote sensing.
- 4) -----is the practice of managing and analyzing spatial data in GIS.
- 5) The extraction of non-wood products from forests is referred to as-----
- 6) The process of using GIS for forest mapping involves----- data layers.

5. Answer the following questions **any two**.

**2x8
=16**

- 1) Assessment of Non-Timber Forest Products.
- 2) Describe the different types of satellite sensors used in forestry and their applications.
- 3) Sustainable Management Practices for NTFPs.
- 4) What is the importance of NDVI (Normalized Difference Vegetation Index) in monitoring vegetation health.
