

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

P. Pages : 2

Time : Three Hours



**GUG/W/24/16185A**

Max. Marks : 70

1. Answer the following questions **any four**.

- 1) Define remote sensing and discuss its significance in forest management.
- 2) Explain the various types of aerial photographs and their applications in photogrammetry.
- 3) What are the key components of a satellite remote sensing system? Explain their functions.
- 4) Discuss the significance of GIS in forest inventory planning and implementation.
- 5) Explain the importance of Remote Sensing and GIS in Forest Management.
- 6) What is the role of Non-Timber Forest Products (NTFPs) in Rural Development?
- 7) Discuss sustainable management practices for Non-Timber Forest Products.
- 8) Describe community-based management strategies for NTFPs.

2. Answer the following questions **any four**.

**4x3  
=12**

- 1) Describe the utilization of remote sensing data for vegetation mapping and monitoring forest health.
- 2) Explain the process of forest resource mapping using GIS and outline the steps involved.
- 3) How can remote sensing be utilized to assess the impacts of climate change on forest ecosystems.
- 4) Explain the role of NTFPs in enhancing local livelihoods.
- 5) Discuss the significance of agroforestry systems in improving the availability of NTFPs.
- 6) Outline the steps for conducting a forest inventory using remote sensing and GIS technologies.
- 7) Describe how NDVI (Normalized Difference Vegetation Index) is calculated and its importance in assessing vegetation health.

- 8) Discuss the different types of satellite sensors used in forestry and their specific applications.

**3.** Answer question in one line.

**1x8  
=8**

- 1) What is remote sensing?
- 2) What does NTFP stand for?
- 3) Name two types of aerial photographs.
- 4) Give one example of an animal-based NTFP.
- 5) What does GIS stand for?
- 6) What is the primary purpose of aerial photography in forestry?
- 7) What method is commonly used for the economic valuation of ecosystem services?
- 8) Define thematic mapping.

**4.** Fill in the blanks.

**1x6  
=6**

- 1) The practice of assessing the economic value of forest products is known as -----.
- 2) The primary purpose of ----- is to evaluate forest health.
- 3) The method used to estimate the total economic value of forest resources is -----.
- 4) In GIS, ----- refers to the management and analysis of spatial data.
- 5) ----- is the process of extracting products like honey from forests.
- 6) Remote sensing data can be employed to monitor changes in ----- over time.
- 7) The economic valuation of NTFPs contributes to ----- development.

**5.** Answer the following questions.

**2x8  
=16**

- 1) Assessment of Non-Timber Forest Product.
- 2) Discuss the different types of satellite sensors used in forestry and their applications.
- 3) Discuss sustainable management practices for Non-Timber Forest Products.
- 4) Explain the significance of NDVI (Normalized Difference Vegetation Index) in monitoring vegetation health.

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