



**Indira Gandhi National Tribal University,  
Amarkantak (M.P.)**

**Semester End Examination, April - 2023**

**Environmental Science**

**M.Sc. – I Semester**

**Paper Name- Remote Sensing & Geo-Informatics**

**Paper Code- EST 103**

Max Time: 3 Hrs.

Max Marks: 60

*Note: Answer the following questions. Each carry 12 marks.*

(5x12=60)

- Q1. Definition of Aerial Photography and discuss about the Elements of Aerial Photography.

*Or*

What is GIS? Explain the Component of GIS with suitable diagram?

- Q2. Write the concept and principle of remote sensing with suitable examples?

*Or*

Write the shorts notes on the following:

- Sensor
- Platform
- CCD Cameras
- Polar orbits

Q3. Write in brief about the following

- a. Change detections
- b. Raster & Vector Data
- c. Sun Synchronous
- d. Wildlife mapping

*Or*

What is Electromagnetic Spectrum (EMR)? Write in details its role in Remote sensing and GIS technologies?

Q4. Discuss in detail about supervised Classification with Flowchart?

*Or*

What is the role of remote sensing and GIS in EIA?

Q5. Discuss about the applications of remote sensing data for the prediction of Natural Disasters (i.e. Earthquake and Landslide).

*Or*

Write short notes about the followings:

- a. Remote sensing applications in Wetland management
- b. RS uses in agriculture

\*\*\*\*\*