

**GUJARAT TECHNOLOGICAL UNIVERSITY****ME - SEMESTER– II (Old course)• REMEDIAL EXAMINATION – SUMMER 2015****Subject Code: 1721311****Date:16/05/2015****Subject Name: Geo-Spatial Techniques****Time: 02:30 pm to 5:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Describe the concept of spectral signature. What is the significance of Remote Sensing. **07**  
 (b) Discuss spatial resolution, spectral resolution, and temporal resolution. **07**
- Q.2** (a) Differentiate between manual and digital image interpretation. **07**  
 (b) Describe the components of Air-Photo Interpretation. **07**
- OR**
- (b) Explain basic components of GIS. **07**
- Q.3** (a) What is image processing? Discuss the concept of geometric correction. **07**  
 (b) What is image enhancement? Explain the process of image enhancement. **07**
- OR**
- Q.3** (a) Write note on thematic image classification. **07**  
 (b) What are different GIS data models? Explain them. **07**
- Q.4** (a) Explain the air borne remote sensing. **07**  
 (b) Explain the features of Geomedia, Mapinfo and ArcGIS. **07**
- OR**
- Q.4** (a) What are the factors that affect GPS setup? **07**  
 (b) Explain the integrated GIS data system. **07**
- Q.5** **Write Short on: (Any 2)** **14**
1. GPS satellites systems of world.
  2. GIS application.
  3. Network Analysis
  4. Geographic data standards.

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