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Total Number of Pages: 01

**B.Plan**  
**15BPLN 505**

**5th Semester Regular Examination 2017-18**

**Geo-Informatics for Planning**

**BRANCH: B.Plan**

**Time: 3 Hours**

**Max Marks: 100**

**Q.CODE: B136**

**Answer Question No.1 and 2 which are compulsory and any four from the rest.  
The figures in the right hand margin indicate marks.**

- Q1 Answer the following questions: *multiple type or dash fill up type* (2 x 10)**
- a) The altitude of geostationary satellite ranges from ----- to -----?
  - b) Full form of MSS?
  - c) Visible light ranges from ----- to -----
  - d) What is atmospheric windows?
  - e) What is rayleigh scattering?
  - f) Full form of NUIS?
  - g) What is urban observatory?
  - h) What are attributes?
  - i) What are sensors?
  - j) What is image registration?
- Q2 Answer the following questions: *Short answer type* (2 x 10)**
- a) Definition of RS?
  - b) What is framing system?
  - c) What is Image transformation?
  - d) What is EM absorption?
  - e) What is the tone of an Aerial photograph?
  - f) What is digital Image?
  - g) What is Image registration?
  - h) What is urban Indicator?
  - i) Definition of GIS?
  - j) Components of GIS?
- Q3 a) What are RS platforms? Detail description of it? (10)**  
**b) What are the different stages of RS? (5)**
- Q4 a) What are the Sensors and different types? (10)**  
**b) Details about IRS? (5)**
- Q5 a) What is EMR and its interaction with atmosphere? (10)**  
**b) What are the different types of waves and their wavelengths? (5)**
- Q6 a) What is Aerial Photograph? What is Aerial photo interpretation and its basic elements? (10)**  
**b) Name some of the popular Indian Remote Sensing Satellites? (5)**
- Q7 a) Details about Digital Image processing? (10)**  
**b) Details about Landsat? (5)**
- Q8 a) Orbital characteristics of a Satellite? (10)**  
**b) Uses of Aircraft? (5)**
- Q9 a) Describe the different types of data format in GIS? (10)**  
**b) Components of GIS? (5)**