

**M. SC. (GEOINFORMATICS) SEM-II (CBCS) (2013 COURSE) :**

**SUMMER - 2018**

**SUBJECT: ADVANCED REMOTE SENSING**

Day : **Saturday**  
Date : **21/04/2018**

**S-2018-1113**

Time : **02.00 PM TO 05.00 PM**  
Max. Marks: 60.

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**N.B.:**

- 1) Answer any **FIVE** questions.
  - 2) Figures to the **RIGHT** indicate full marks.
  - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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- Q.1. a.** Discuss two applications of microwave sensing in forest management. **(06)**
- b.** Explain how geometry of earth surface features influences the radar returns. **(06)**
- Q.2. a.** Explain the principles of SLAR system and add a note on tonal characteristics of SLAR image. **(06)**
- b.** Describe the characteristics of RADARSAT. **(06)**
- Q.3. a.** Comment on the canopy penetration ability of LIDAR. **(06)**
- b.** Explain the principals of LIDAR remote sensing and add a note on its applications. **(06)**
- Q.4. a.** Explain how LIDAR data is processed. **(06)**
- b.** Give the salient features of ALTM. **(06)**
- Q.5. a.** Discuss the working principles of area array CCD detector, giving its advantages. **(06)**
- b.** Discuss the advantages and disadvantages of hyperspectral imaging. **(06)**
- Q.6.** Write short notes on **ANY THREE** of the following **(12)**
- a.** Salient features of AVIRIS
  - b.** Working principle of hyperspectral scanner
  - c.** RADAR interferometry
  - d.** Image endmembers

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