

Roll No.

Total No. of Pages : 01

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M.Tech. (ECE) EL-V (2018 Batch) (Sem.-3)

REMOTE SENSING

Subject Code : MTEC-PE5C-18

M.Code : 76586

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

- Q1. a) Discuss about physics of remote sensing in detail.
b) Explain in detail about the spectral reflectance of vegetation.
- Q2. a) Explain the sun synchronous and geo synchronous satellites in detail.
b) Write a note on :
 - i) IRS
 - ii) INSAT
- Q3. a) Describe in detail about the across track and along track scanners.
b) Explain the opto mechanical electro optical sensors in detail.
- Q4. a) Discuss about the calibration of thermal scanners in detail.
b) Explain in detail about the Altimeter-LiDAR remote sensing.
- Q5. a) Describe the real aperture and synthetic aperture RADAR in detail.
b) Write a note on ERS and RADARSAT in detail.
- Q6. a) Discuss in detail about the compound spectral curve.
b) Write a brief note on thermal remote sensing.
- Q7. a) Describe about the visual and digital interpretation in data analysis.
b) Explain in detail about the image enhancement.
- Q8. a) Write a note on Aerial laser terrain mapping in detail.
b) Explain in detail about the thermal data processing.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.