

# CBCS SCHEME

USN

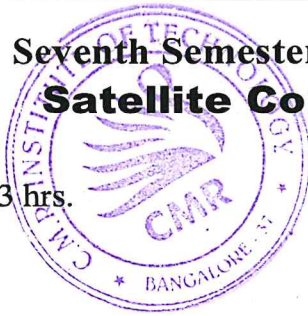
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15TE72

## Seventh Semester B.E. Degree Examination, July/August 2021 Satellite Communication and Remote Sensing

Time: 3 hrs.

Max. Marks: 80



Note: Answer FIVE full questions.

- 1 a. Explain Historical background of remote sensing. (08 Marks)  
b. Explain international space law in detail. (08 Marks)
- 2 a. What is remote sensing? Explain with a neat block diagram. (08 Marks)  
b. Explain the benefits of environmental monitoring from satellite sensors. (08 Marks)
- 3 a. Describe the electromagnetic spectrum with respect to remote sensing. (06 Marks)  
b. Explain the following terms along with their rotations and units (10 Marks)
  - i) Radiant energy
  - ii) Radiant flux
  - iii) Radiant Exitance
  - iv) Emissivity
  - v) Spectral Albedo.
- 4 a. Explain in brief spectral signatures in solar spectrum (08 Marks)  
b. Explain the characteristics of electromagnetic radiation in the microwave region. (08 Marks)
- 5 a. Explain in detail different kinds of resolution of a sensor system. (08 Marks)  
b. Explain the role of passive sensors in remote sensing. (08 Marks)
- 6 a. Explain the role active sensors in remote sensing. (08 Marks)  
b. Explain handsat program in detail. (08 Marks)
- 7 a. Explain what are the constraints in using remote sensing data. (08 Marks)  
b. Describe the types of interpretation. (08 Marks)
- 8 a. Explain the organisation of remote sensing project. (08 Marks)  
b. Explain the interpretation phase of remote sensing imagery. (08 Marks)
- 9 a. Explain the criteria for visual interpretation. (08 Marks)  
b. Explain feature identification. (08 Marks)
- 10 a. Explain the elements of visual analysis in detail. (10 Marks)  
b. Explain characteristics of photographic images. (06 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.