

CBCS SCHEME

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15CV563

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019

Remote Sensing and GIS

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Define Remote Sensing. Explain the process of remote sensing with neat sketch. (08 Marks)
b. Describe the Electromagnetic spectrum with a neat sketch. (08 Marks)

OR

- 2 a. Explain the energy interactions with earth surface features (soil, water and vegetation) with a neat sketch. (06 Marks)
b. Define Visual Interpretation. Enumerate different types of elements considered during visual interpretation process. (10 Marks)

Module-2

- 3 a. Explain different types of IRS series satellites used in remote sensing. (08 Marks)
b. Explain different types of sensors used in remote sensing. (08 Marks)

OR

- 4 a. Explain different types of sensor resolutions in remote sensing. (08 Marks)
b. Illustrate Radiometric and Geometric corrections in digital image processing. (08 Marks)

Module-3

- 5 a. Define GIS. Describe the key components of GIS software. (08 Marks)
b. Describe different types of Data types used in GIS data models. (08 Marks)

OR

- 6 a. Explain different types of coordinate systems used in GIS. (08 Marks)
b. Describe different types of map projections used in GIS. (08 Marks)

Module-4

- 7 a. Explain topological model of vector data overlay concept. (08 Marks)
b. Explain the creation of shape file in vector data model. (08 Marks)

OR

- 8 a. Describe Raster data GIS models with sketch. (08 Marks)
b. Explain advantages and disadvantages of Raster data. (08 Marks)

Module-5

- 9 a. Explain the role of Remote sensing in monitor of land use changes. (08 Marks)
b. Explain the application of Remote Sensing and GIS in water resources management. (08 Marks)

OR

- 10 a. Explain the applications of RS and GIS for natural resources management system. (08 Marks)
b. Describe the application of RS and GIS in the field of Urban planning. (08 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.