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15CV563

Fifth Semester B.E. Degree Examination, Dec. 2020
Remote Sensing and Geographic Information Systems

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. What are the advantages and limitations of RS? (05 Marks)
- b. What is Electro Magnetic Spectrum (EMS). Enumerate the different range of wavelength in EMR spectrum. (05 Marks)
- c. Explain the process of Remote Sensing. (06 Marks)

OR

- 2 a. Explain in detail about Energy Interaction with atmosphere and Earth Resources. (08 Marks)
- b. Explain the elements of Visual Image Interpretation. (08 Marks)

Module-2

- 3 a. Distinguish between Passive and Active sensors. (04 Marks)
- b. Explain any two Sensor Resolutions. (04 Marks)
- c. Explain in detail about the Digital Image Processing. (08 Marks)

OR

- 4 a. What are the different types of Remote Sensing Platform? Explain. (06 Marks)
- b. Write short notes on :
(i) IRS
(ii) LANDSAT
(iii) SPOT
(iv) IKONOS
(v) Contrast stretching (10 Marks)

Module-3

- 5 a. Explain various types of map projections with neat sketch. (08 Marks)
- b. Write a note on
(i) DBMS
(ii) Geographic Co-ordinate System (08 Marks)

OR

- 6 a. Discuss briefly about integration of spatial and attribute data. (08 Marks)
- b. Define GIS. Explain the components of GIS. (08 Marks)

Module-4

- 7 a. Explain any two vector model. (08 Marks)
- b. Based on advantages and disadvantages, give a comparison of Raster and Vector Data Models. (08 Marks)

OR

- 8 a. Explain Raster and Vector Data Representation.
b. Write a note on :
(i) Chain Encoding
(ii) Object Based Raster Model (08 Marks)

Module_5

- 9 a. Explain role of remote sensing to monitor land-use changes. (08 Marks)
b. Explain the application of RS in Forestry. (08 Marks)

OR

- 10 a. Explain role of RS in Urban Planning. (08 Marks)
b. Write a note on Ground Water Prospect and Recharge in RS. (08 Marks)

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OR

- 8 a. Explain Raster and Vector Data Representation. (08 Marks)
b. Write a note on :
(i) Chain Encoding
(ii) Object Based Raster Model (08 Marks)

Module-5

- 9 a. Explain role of remote sensing to monitor land-use changes. (08 Marks)
b. Explain the application of RS in Forestry. (08 Marks)

OR

- 10 a. Explain role of RS in Urban Planning. (08 Marks)
b. Write a note on Ground Water Prospect and Recharge in RS. (08 Marks)

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