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15TE72

enth Semester B.E. Degree Examination, Feb./Mar. 2022 Satellite Communication and Remote Sensing

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- Illustrate the main components associated with remote sensing activities with a neat 1 (10 Marks) diagram. (06 Marks)
 - Explain the sources of information on remote sensing. b.

- Explain the historical development of remote sensing systems with a neat diagram.
 - Explain the advantage of space based observations.

(10 Marks) (06 Marks)

Module-2

Explain the electromagnetic spectrum with a neat diagram. 3 a.

(08 Marks)

Explain the main type of radiation process in remote sensing with a neat diagram. (08 Marks)

OR

- What is spectral signature? Enumerate the main factors affecting if in the solar region of the a. (08 Marks) EM spectrum.
 - Explain the different types of atmospheric interactions. b.

(08 Marks)

Module-3

Explain the different types of sensors used to electromagnetic energy. 5 a.

(10 Marks)

Explain the principles of radar altimetry with a neat diagram. b.

(06 Marks)

Explain the principle of working an along - track scanner with the help of a neat diagram.

(08 Marks)

Explain the satellite remote sensing missing.

(08 Marks)

Module-4

Explain the types of image interpretation with a neat diagram.

(08 Marks)

With the help of a neat block diagram, explain the generalized procedure for the (08 Marks) interpretation of remote sensing imagery.

Explain the organization of remote sensing project.

(10 Marks)

With a neat diagram, explain the common format of photographic products.

(06 Marks)

Module-5

Explain the processes in color formation with the help of a neat diagram. 9 a.

(08 Marks)

With a neat diagram, explain the hierarchical organization of visual interpretation criteria. (08 Marks)

OR

Explain the elements of visual analysis. 10

(10 Marks)

With a neat diagram, explain the temporal dimensions in image interpretation.

(06 Marks)