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Code: 13A01803

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2018

## **REMOTE SENSING & GIS**

(Civil Engineering)

Time: 3 hours Max. Marks: 70

## PART – A

(Compulsory Question)

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- 1 Answer the following:  $(10 \times 02 = 20 \text{ Marks})$ 
  - (a) Write short notes on principal point and principal length.
  - (b) Write short notes on parallax.
  - (c) What are the advantages and limitations of remote sensing?
  - (d) Write short notes on Swath and Nadir.
  - (e) What are the limitations of GIS?
  - (f) Write short notes on data capture.
  - (g) Give an overview on data manipulation and analysis.
  - (h) Differentiate between vector data storage and attribute data storage.
  - (i) Define fluvial geomorphology.
  - (j) What is a watershed? Write their characteristics.

## PART - B

(Answer all five units,  $5 \times 10 = 50 \text{ Marks}$ )

[ UNIT - I ]

What are the types of aerial photography? Explain.

OR

3 What is fundamental stereoscopy? Explain in detail.

UNIT – II

4 What is resolution of a sensor? Describe all sensor resolutions.

OR

- 5 (a) What is orbit of a satellite? Explain geosynchronous and sun-synchronous orbits.
  - (b) Discuss on the spectral reflectance characteristics of water and vegetation in different spectral bands.

UNIT – III

6 Define GIS. Describe the key components of GIS.

OR

7 Define spatial data. Explain the types of spatial data.

UNIT – IV

8 What do you understand by spatial data and attribute data? How are they integrated to make a GIS?

OR

9 What do you understand by geospatial analysis? Why is it required? Mention six basic geospatial analysis techniques.

UNIT – V

10 Explain in detail the water resources management and monitoring.

OR

11 How impact assessment and monitoring is done for flood and drought? Explain.

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