

2019

MSc

2nd Semester Examination

RS & GIS

PAPER – RSG 204

Full Marks :40

Time : 2 hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their
Own words as far as practicable.

Illustrate the answers wherever necessary.

Fundamentals of Remote Sensing and Photogrammetry**Group-A****Answer any Two questions :**

2x2

- 1) What do you mean by the concept of Electromagnetic Radiation (EMR)?
- 2) What is parallax?
- 3) Define the concept of False Color Composite (FCC)?
- 4) What is geo stationery and sun synchronous orbit?

Group-B**Answer any Two questions :**

2x4

- 5) Differentiate between Push-Broom and Whisk-Broom Scanners.
- 6) Discuss the concept of DEM.
- 7) Explain the relationship between link angle and photo scale.
- 8) Derive The scale of an aerial photograph ?

Group-C

Answer any One question : 1x8

(9) Discuss the process of Remote Sensing System. 8

(10) What are different types of distortions in vertical photo graphs ? How we can measure the height of an object from a shadow length? 4x4

Fundamentals of GIS AND GPS**Group-A**

Answer any two questions: 2x2=4

(1) Which features are most suitable for collecting GCP ? 2

(2) What is the concept of IRNSS? 2

(3) Write the sources of Data in GIS. 2

(4) What is 'Multipath Error' ? 2

Group-B

Answer any two questions: 2x4

5) Differentiate between Spatial Data and Attribute Data.

6) Write a note on GIS, and its advantages and limitations.

7) Write a shot note on map composition and its elements.

(8) Discuss the basic concept of NAVSTAR.

Group-C

Answer any one question:

1x8

9. Compare space segments of Global Positioning System (GPS) and Indian Regional Navigational Satellite System (IRNSS). 8

10. (a) What do you mean by Mobile Mapping?

(b) Discuss the working principle of GPS surveying for eliminating biases. 3+5=8