

**U.G. 5th Semester Examination - 2020**

**GEOGRAPHY**

[HONOURS]

Course Code : GEO-H-CC-T-12

Remote Sensing and GIS

[NEW SYLLABUS under CBCS]

Full Marks : 40

Time : 2½ Hours

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

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

**UNIT-I**

**(Remote Sensing)**

1. Answer any **three** questions from the following:

2×3=6

- i) What is *remote sensing*?
- ii) What is *electromagnetic spectrum*?
- iii) What is *platform*?
- iv) What is meant by *spatial resolution*?
- v) What is *geostationary satellite*?

2. Answer any **one** question from the following: 4×1=4

- i) Distinguish between active and passive sensor.
- ii) Mention the stages involved in remote sensing process.

[Turn over]

3. Answer any **one** question from the following:

10×1=10

- i) Describe the aerial photo interpretation keys with necessary illustration.
- ii) Discuss merits and demerits of FCC.

**UNIT-II**

**(Geographical Information Systems and Global Navigation Satellite System)**

4. Answer any **three** questions from the following:

2×3=6

- i) What is GIS?
- ii) What is *overlay analysis* in GIS?
- iii) What is GNSS?
- iv) What is meant by *waypoint* in GPS survey?
- v) Mention two advantages of GPS.

5. Answer any **one** question from the following: 4×1=4

- i) Distinguish between raster and vector data.
- ii) Mention the elements involved in GIS.

6. Answer any **one** question from the following:

10×1=10

- i) Write a short note on principles of the preparation of attributes tables and data management in GIS.
- ii) Discuss the principles of GNSS positioning and waypoint collection.