

U.G. 5th Semester Examination - 2022**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:

 $2 \times 3 = 6$

- i) What is remote sensing?
- ii) What is radiometric resolution?
- iii) What is called *overlap* in aerial photography?
- iv) What is fiducial mark?
- v) How do you extract scale from aerial photograph?

2. Answer any **one** question from the following: $4 \times 1 = 4$

- i) Bring out the significances of FCC.
- ii) Distinguish between active and passive sensors.

[Turn over]

3. Answer any **one** question from the following: $10 \times 1 = 10$

- i) State different types of Resourcesat and Cartosat satellites mentioning their significant features.
- ii) Mention the principle aerial photo interpretation keys and discuss.

UNIT-II

(Geographical Information Systems and Global Navigation Satellite System)

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

$2 \times 3 = 6$

- i) Why is GIS significant in geographical study?
- ii) What is meant by *overlay analysis* in GIS?
- iii) What is the function of *attribute table* in GIS?
- iv) What is meant by *data manipulation*?
- v) What is *waypoint* in GPS survey?

5. Answer any **one** question from the following: $4 \times 1 = 4$

- i) What are the steps for waypoints collection in GPS survey?
- ii) Analyse the principles of GNSS positioning.

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

$10 \times 1 = 10$

- i) Discuss different types of data in GIS with necessary illustrations.
- ii) Illustrate the principles of preparation of attribute tables, data manipulation and management in GIS.