U.G. 5th Semester Examination - 2021

GEOGRAPHY

[HONOURS]
Course Code : GEO-H-CC-T-12
Remote Sensing and GIS
[NEW SYLLABUS under CBCS]

Full Marks : 40 Time : $2\frac{1}{2}$ 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 EMR in remote sensing?

ii) What is passive sensor?

iii) What is atmospheric window?

iv) What is FCC?

v) What is aerial photography?

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

i) Distinguish between airborne and spaceborne platforms.

[Turn over]

ii) Bring out the advantages and limitations of remote sensing.

3. Answer any **one** question from the following: 10×1=10

i) Classify, sensor resolution and discuss their characteristics.

ii) Give a detailed note on visual image interpretation.

UNIT-II

(Geographical Information Systems and Global Navigation Satellite System)

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

2×3=6

i) Define GIS.

ii) What is raster data?

iii) What is vector data?

iv) What is spatial data?

v) What is non-spatial data?

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

i) What are the advantages of GIS?

ii) What are the advantages of GPS survey?

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

$$10\times1=10$$

   i) Discuss the principles of preparation of attributes tables and overlay analysis in GIS.

   ii) Discuss the principles of waypoint collection using GNSS and transferring the waypoints to GIS.

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