

Handwritten: B.Sc. SEMESTER - IV GROUP  
Handwritten: GIS & GNSS SYSTEM  
Handwritten: 23-24/41925

**B.Sc. Semester -IV Examination, 2023-24**

**Subject : Geography**

**Course ID : 41925**

**Course Code: SH/GEO/405/SEC-2**

**Course Title: GIS and GNSS (Practical)**

**Time: 3 Hours**

**Full Marks :40**

*The figures in the right-hand margin indicate marks.  
Candidates are required to give answers in their own words as  
far as practicable.*

**SET – II**

**Section -A**

**1. Answer the following questions:**

**5x2 = 10**

- a) Distinguish between open and closed traverse.
- b) What is GNSS?
- c) Distinguish between spatial and attribute data.
- d) What are the components of GIS?
- e) What is raster data?

*[Turn Over]*

## Section - B

### 2. Answer the following questions:

a) Rectify the given map with at least four GCPs (non-rectified map to be provided) with the help of a GIS software. What is RMS error?

$$8+2 = 10$$

b) Conduct a GPS survey using a hand held GPS receiver and collect 4 GPS waypoints from the field and record latitude and longitude on your notebook. Plot the waypoints manually on a suitable scale using MS Excel / QGIS Software.

$$5+5 = 10$$

3. Viva voce and Notebook

$$5+5 = 10$$