

B.Sc. Semester-VI Examination, 2022-23**GEOLOGY [Honours]**

Course ID : 62011 Course Code : SH/GEL/601/C-13(T)

Course Title : **Geomorphology, Remote Sensing and GIS**

Time : 1 Hour 15 Minutes Full Marks : 25

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

1. Answer any **five** of the following questions: $1 \times 5 = 5$
- What is the structural difference between mesa and butte?
 - Define barrier island.
 - What is solifluction?
 - What is IRS LISS-III?
 - Write down the factors responsible for landform control.
 - What is tombolo?
 - Define sensor.
 - What is DEM?

2. Answer any **two** of the following questions:

 $5 \times 2 = 10$

- Write a short note on river terrace.
- Compare between the following pairs:
 - geostationary satellite and near-Earth polar orbiting satellite
 - active sensors and passive sensors
- Write a short note on Global Positioning System (GPS).
- Briefly discuss on type of sensor resolutions.

3. Answer any **one** of the following questions:

 $10 \times 1 = 10$

- Briefly discuss different stages / processes of data acquisition in remote sensing. 10
- Write down the different processes of wind erosion and discuss about the various types of landform associated with those erosional activities. 10
