

Tribhuvan University
Institute of Science and Technology
2078

Bachelor Level / eighth-semester / Science Full marks: 60 **Computer Science and Information Technology(CSC468)** Pass marks: 24 (Geographical Information System) Time: 3 hours Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt any six questions:

1. **What is the Geographical information system (GIS) ? Explain the various components of GIS.**

2. **Explain the various applications with suitable examples of GIS in Municipality.**

3. **What is remote sensing? Explain the components of remote sensing with a diagram.**

4. **How do you understand Earth's features? Explain how GIS represents the earth features.**

5. **What is geocoding? Explain spatial analysis with an example.**

6. **What are the main sources of GIS Data? Explain the various methods of data capture in GIS.**

7. **What is projection? What are three basic techniques used to create a projection? Explain.**

8. **Write short notes on**
 - a. **Raster data and Vector data**
 - b. **GPS**