Tribhuvan University Institute of science and Technology

2069 ★

Bachelor Level / Fourth Year / Eight semester / Science Computer Science and Information Technology-(CSc-459) (Geographical Information System) Full Mark: 60 Pass Mark: 24 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.

Attempts any six questions.

[10x6=60]

- 1. Explain the GIS application and its benefits.
- 2. Why digital mapping is necessary in GIS? Explain with piratical example.
- 3. Differentiate between geographic phenomena and data modeling.
- 4. Explain the spatial database design with example.
- 5. What d you mean by spatial reference? Explain the quality aspects of spatial data?
- 6. Explain with example of metadata and clearing house.
- 7. Explain the system analysis and design of GIS.
- 8. Write short note on (any two)
 - (a) Map elements
 - (b) Spatial relationship
 - (c) Geodatabase
 - (d) SDI