≤ ©ASCOL CSIT 2070 Batch

Tribhuban University Institute of science and Technology 2072

Bachelor Level / Fourth Year / Eight semester / Science Computer Science and Information Technology-(CSc.459) (Geographical Information System)

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.

- 1. Explain the history development of GIS. What are the application of GIS?
- 2. Explain the mapping projection with example.
- 3. Explain the spatial modeling with example.
- 4. Explain the GPS and remote sensing with example.
- 5. Why is spatial analysis important during the GIS implementation? Explain.
- 6. What do you mean by metadata? Explain the critical factors of spatial data infrastructure (SDI).
- 7. Explain the web based GIS system with example.
- 8. Write short note on (any two)
 - (a) Map layers.
 - (b) Digital terrain model
 - (c) ITRS
 - (d) Buffering

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Full Mark: 60 Pass Mark: 24 Time: 3 hours.

[10x6=60]

[5+5]