

**Tribhuvan University**  
**Institute of Science and Technology**  
**2074**

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 (10 x 6 = 60)**

1. Write down the major differences between the general database management system and GIS.
2. Define Datum? What does it mean that Nepal Lies in UTM Zone 45N? Explain.
3. What do you mean by Digital Surface Model (DSM) ?Explain With example its application
4. List down the various sources of GIS data .Explain any three of them in brief.
5. List and describe the major map components.
6. What Location based services have you noticed in Location based services have you noticed in your everyday life? Describe the role of GPS in the modern World.
7. Writes a few advantages and disadvantages of using free and open sources GIS software tools with some examples.
8. Write short note on [5+5]
  - a. Map resolution
  - b. SDI