Tribhuwan University Institute of Science and Technology 2073

Bachelor Level / first-semester / Science
Computer Science and Information Technology(CSC109)
(Introduction to Information Technology) Time: 3 hours

Full marks: 60 Pass marks: 24

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

Long Questions

Attempt any two questions: $(2 \times 10=20)$

- 1. Discuss different auxiliary storage devices in detail.
- 2. What is operating system? Discuss functions and classifications of operating system.
- 3. Discuss file processing and database processing. What are the benefits of using database processing over file processing? Discuss different types of DBMS.

Short Questions:

Attempt any eight questions: $(8 \times 5 = 40)$

- 4. Differentiate between RISC and CISC.
- 5. Subtract (10111011) from (11000001)
- 6. What are the features of software?
- 7. Discuss different types of relationship used in database management system with suitable example.
- 8. What is modulation? Discuss the need of modulation.
- 9. Why do we need network protocol? Discuss.
- 10. Discuss the common uses of internet.
- 11. What is hypermedia? Discuss its characteristics.
- 12. What is GIS? Discuss different GIS technologies.
- 13. How can we use IT in science and Engineering? Discuss.