Tribhuwan University Institute of Science and Technology 2074

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:

- 1. What is communication protocol? Discuss the OSI model with its layers.
- 2. What is the objective of using operating system? How operating system performs process, memory and file management activities.
- 3. What is data model? How ER-Model can be used to create conceptual data model? Explain with example.

Short Questions:

Attempt any eight questions:

- 4. What is computer system? Discuss components of computer system.
- 5. Why bus is used in computer? How control bus differs from data bus?
- 6. How many numbers of bites are equivalent 1 kilobyte? Discuss the working mechanism of magnetic tape.
- 7. Mention the use of plotter. How quality of printer is determined?
- 8. What do you mean by Internet of Things (IoT)? As an IT expert, mention the possible applications of IoT that you have observed in Nepal.
- 9. Define each of the terms confidentiality, integrity, and authentication.
- 10. What is multimedia? Discuss the applications of multimedia.
- 11. What is BigData? How centralized database is different than the distributed database?
- 12. Convert (10.4)10 ti binary. Add (10111)2 with(01111)2.

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