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Tribhuvan University Institute of Science and Technology 2072

Bachelor Level/ First Year/ First Semester/ Science
Computer Science and Information Technology (CSc. 101)
(Introduction to Information Technology)
Full Marks: 60 | Pass Marks: 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.

Long Questions

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

- 1. What is input device? Discuss MICR. Differentiate between OCR and OMR.
- 2. Discuss different types of computer software with example.
- 3. Define network protocol. Discuss different types of network topologies along with merits and demerits.

Short Questions:

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

- 4. Discuss different characteristics of computers.
- 5. Subtract (101111)₂ from (1100001)₂
- 6. Differentiate between compiler and interpreter. Is it possible to run a computer system without operating system?
- 7. Discuss the importance of storing data in a database.
- 8. Why do we need to convert data into signal? Discuss analog and digital signal.
- 9. What is network protocol? Why do we need it?
- 10. What is domain name? Why is it different from ip address?
- 11. What is multimedia? Discuss its uses.
- 12. Discuss data warehousing and data mining along with advantages.
- 13. How can we use IT in business and industry? Explain.