Tribhuvan University
Institute of Science and Technology
2073
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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 for as practicable.
The figures in the margin indicate full marks.

Long Questions:

Attempt any two questions: (2×10=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: (8×5=40)

4. Differentiate between RISC and CISC.

5. Subtract $(10111011)_2$ from $(11000001)_2$.

6. What are the features of software?

7. Discuss different types of relationships use 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.

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