

Tribhuvan University  
Institute of Science and Technology

2081

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Bachelor Level / First Year/ First Semester/ Science

**Computer Science and Information Technology (CSC114)**

(Introduction to Information Technology)

**(NEW COURSE)**

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.

**Section A**

**Attempt any TWO questions.**

**(2×10 = 20)**

1. Compare primary memory with secondary memory? Why do we need primary memory in computers? Explain different types of secondary memories used in computers. (2 + 2 + 6)
2. Explain application software with examples. Why do we need system software in computers? What are different types of operating systems? (3 + 2 + 5)
3. Define network topology. Explain different types of network topologies along with their merits and demerits. (2 + 8)

**Section B**

**Attempt any EIGHT questions.**

**(8×5 =40)**

4. Explain different characteristics of computers. (5)
5. Explain instruction format with example. What is instruction set? (3.5 + 1.5)
6. What is I/O port? Explain working of I/O system. (1 + 4)
7. What is Unicode? Convert 0.865 from Base 10 to Base 16. (2 + 3)
8. Explain cloud computing in brief. (5)
9. What is data warehouse? Explain. (5)
10. What are different elements of multimedia? (5)
11. Explain security awareness and security policy in brief. (2.5 + 2.5)
12. Write short notes on: (2 × 2.5 = 5)
  - a) Cache memory
  - b) IoT