



## Term Evaluation Theory (Odd)-(Late/Lateral Admission) Exam Nov. 2025

Roll no.....

Name of the Course: Diploma

Semester: 1st

Name of the Paper: Fundamentals of Information Technology

Paper Code: DTIT 104

Time: 1.5 hour

Maximum Marks: 50

### Note:

- (i) Answer all the questions by choosing any one of the sub-questions
- (ii) Each question carries 10 marks.

Q1. (10 Marks)

a. Explain the characteristics of a computer. Also, differentiate between hardware and software with examples.

CO1

OR

b. Discuss the evolution of computers generation-wise. Focusing on features, technology used, and examples of each generation.

CO1

Q2. (10 Marks)

a. What are analog, digital, and hybrid computers? Explain with suitable examples

CO1

OR

b. Differentiate between General-purpose and Special-purpose computers. Also compare Micro-computer, Mini-computer, Mainframe, and Supercomputer based on features and uses.

CO1

Q3. (10 Marks)

a. What are input devices? Explain the keyboard, scanner, and digital camera with their uses.

CO2

OR

b. Explain MICR, OMR, Bar-code Reader, and Voice Input Devices with applications in daily life.

CO2

Q4. (10 Marks)

a. What is the memory hierarchy in a computer? Draw a neat diagram of the memory hierarchy and explain the functions of registers, cache memory, main memory (RAM), and secondary storage with examples.

CO2

OR

b. Draw and explain the structure of the CPU and describe the functions of ALU, CU, and Registers.

CO2

Q5. (10 Marks)

a. What is system software and application software? Give examples. Also, differentiate between a compiler and an interpreter.

CO2

OR

b. What is an operating system? Explain its functions and types. Also, list and explain any four elements of a GUI-based OS.

CO2