

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

June, 2026

**CIT-001 : FUNDAMENTALS OF COMPUTER
SYSTEMS**

Time : 2 Hours

Maximum Marks : 50

Weightage : 75%

Note : *The Section A is compulsory. Section A carries 20 marks. In Section B attempt any **three** questions. Section B carries 30 marks.*

Section-A

1. Answer the following multiple choice questions. Only one answer is correct :

10×1=10

- (a) Which of the following is correct for RAM ?

- (i) Auxiliary store
 - (ii) Volatile memory
 - (iii) CPU perform computation on
RAM
 - (iv) Non-volatile memory
- (b) time is required to bring the data under R/W head.
- (i) Seek time
 - (ii) Latency time
 - (iii) Read time
 - (iv) Write time
- (c) is not an input device.
- (i) Bar code reader
 - (ii) Graphics tablet
 - (iii) Joystick
 - (iv) Plotter
- (d) Keyboard system is commonly known as :
- (i) QWARTY system
 - (ii) QWERTY system
 - (iii) QWARKY system

- (iv) QWARTe system
- (e) entity's existence depends on some other entity.
 - (i) Strong
 - (ii) Weak
 - (iii) Single
 - (iv) Composite
- (f) operator gives remainder after division.
 - (i) /
 - (ii) *
 - (iii) %
 - (iv) //
- (g) is not an example of high level language.
 - (i) C
 - (ii) C++
 - (iii) Java
 - (iv) ASSEMBLY LANGUAGE

- (h) is an example of conditional statement.
- (i) for loop
 - (ii) while loop
 - (iii) if-else
 - (iv) do-while loop
- (i) 1 byte has bits.
- (i) 2
 - (ii) 4
 - (iii) 6
 - (iv) 8
- (j) is not an example of wireless transmission.
- (i) Radio waves
 - (ii) Optical fibres
 - (iii) Micro waves
 - (iv) Infrared
2. (a) What is DBMS ? Discuss *two* advantages of using DBMS software. 5
- (b) Discuss the categorization of different memory devices. 5

Section-B

Note : Answer any *three* questions from the following.

3. (a) Differentiate between application software and system software. Discuss the purpose of system software with example. 5
- (b) Differentiate between multitasking and multiprogramming operating systems. 5
4. (a) Explain the Integrity constraints of DBMS environment. 5
- (b) Discuss strong and weak entities with an example for each. 5
5. (a) Draw a flow chart for summing first 10 natural numbers. 5
- (b) Write a C program to find the average of three numbers. 5
6. (a) List the components of any computer network. Discuss star network topologies with a suitable diagram. 5
- (b) Discuss 5 ways in which we can ensure security of any computer system. 5

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