

**CERTIFICATE
IN
INFORMATION TECHNOLOGY
(CIT)**

ASSIGNMENTS

(July - 2025 & January - 2026)

(CIT-001, CIT-002, CIT-003 and CITL-001)



**SCHOOL OF COMPUTER AND INFORMATION SCIENCES
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068**

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Important Notes

1. Submit your assignments to the Coordinator of your Study Centre on or before the due date.
2. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding Term End Examinations. For further details, please refer to CIT Programme Guide.
3. To become eligible for appearing the Term End Practical Examination for the lab course CITL-001, it is essential to fulfill the minimum attendance requirements as well as submission of assignments (on or before the due date). For further details, please refer to the CIT Programme Guide.

Course Code : **CIT-001**
Course Title : **Fundamentals of Computer Systems**
Assignment Number : **CIT/CIT-001/ASSIGN/2025-26**
Maximum Marks : **25**
Last Dates for Submission : **31st October, 2025 (For July Session)**
15th April, 2026 (For January Session)

There are four questions in this assignment, which carry 25 marks. Answer all the questions. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the CIT Programme Guide. The examples, whenever asked to be given, should be different from those that are discussed in the corresponding course material.

Question 1:

- (a) What is computer system? Explain with the help of Block Diagram. (2 marks)
- (b) What are output devices? Briefly explain the various output devices. (2 marks)
- (c) What is secondary memory? Explain how is it different from primary memory. (2 marks)

Question 2:

- (a) What is software? What is application software? How is it different from utility software? (2 marks)
- (b) What is a Flowchart? Explain different symbols used in Flowcharts. Draw a flowchart for finding the largest among three numbers. (3 marks)
- (c) Write a C program to find the area of a circle. (2 marks)

Question 3:

- (a) What is computer network? Briefly explain star and ring network topologies. (2 marks)
- (b) Explain asynchronous and synchronous mode of data transmission with the help of examples. (2 marks)
- (c) Explain OSI reference model. (2 marks)

Question 4:

- (a) What is social networking? Explain its advantages. (2 marks)
- (b) What is need of information security? List different security threats in computer network. (2 marks)
- (c) What is computer virus? What are different types of viruses? Explain how a computer system can be protected from computer virus. (2 marks)