

**CERTIFICATE
IN
INFORMATION TECHNOLOGY
(CIT)**

ASSIGNMENTS

(July - 2021 & January - 2022)

(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/2021-22
Maximum Marks	:	25
Last Dates for Submission	:	31st October, 2021 (For July Session) 15th April, 2022 (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 a computer system? Explain different components of computer system. **(2 marks)**
- (b) What is a printing device? Briefly explain the various types of printing devices. **(2 marks)**
- (c) Briefly explain various types of computer memory. **(2 marks)**

Question 2:

- (a) Define Software? Differentiate between System Software and Application Software. **(3 marks)**
- (b) What is a Flowchart? With the help of an example flowchart, explain the use of various symbols of a flowchart. **(3 marks)**
- (c) Write a C program for finding the largest number among the three given numbers. **(2 marks)**

Question 3:

- (a) Differentiate between asynchronous and synchronous mode of data transmission. **(2 marks)**
- (b) Explain the use of following network devices:
 - i. Bridge
 - ii. Hub
 - ii. Switch
 - iv. Router**(2 marks)**
- (c) What is network topology? Explain star and bus topology with the help of suitable diagrams. **(2 marks)**

Question 4:

- (a) What is a computer virus? Explain any two types of virus attack. **(3 marks)**
- (b) What is need of Network Security? Explain its different elements of Network Security. **(2 marks)**