

CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)

ASSIGNMENTS

(July - 2026 & January - 2027)

(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-002**
Course Title : **Introduction to Information Technology**
Assignment Number : **CIT/CIT-002/ASSIGN/2026-27**
Maximum Marks : **25**
Last Dates for Submission : **31st October 2026 (For July Session)**
15th April 2027 (For January Session)

There are four questions in this assignment. Answer all the questions. The examples, whenever asked to be given, should be different from those that are discussed in the corresponding course material.

Question 1: (Covers Block 1) (6 Marks)

- (a) How can information be created? What are the different ways of storing information? How is information related to Information and Communication Technologies (ICT)?
- (b) Explain any four technologies that can be categorised in ICT. What is the digital divide? What is its impact on employment and the development of a country?
- (c) What is a digital identity? How can digital identity be related to authentication, message integrity, and non-repudiation? Explain with the help of an example of each.

Question 2: (Covers Block 2) (2+1+2+2= 7 Marks)

- (a) Define the term e-Commerce. What are the different types of e-Commerce? Explain. What are the different technologies that can be used to address the security issues relating to e-commerce systems?
- (b) What are the differences between e-governance and e-democracy?
- (c) Explain the following in the context of e-learning:
 - (i) Graphics and Image formats
 - (ii) Use of e-mail in e-learning
 - (iii) E-learning standards
 - (iv) Online Examinations
- (d) Explain the use of ICT in medical equipment and online medical advice.

Question 3: (Covers Block 3) (6 Marks)

- (a) List and explain any 6 requirements for the development of an Information System for a Library.
- (b) What is a transaction processing system? Explain the input, output and processing requirements for maintaining finances in the Transaction processing system. Also, explain the features of the “manufacturing and logistics” component of a Management Information System.
- (c) List the features of the AGMARKNET and ERNET projects in India.

Question 4: (Covers Block 4)

(6 Marks)

- (a) Explain the components and characteristics of an embedded system with the help of a block diagram. Why is a real-time operating system needed in embedded systems?
- (b) Explain the use of the following in the context of HCI:
- (i) Microphone
 - (ii) Webcam
 - (iii) Sliders
 - (iv) Checkbox
- (c) Explain the following in the context of Computer Vision:
- (i) Pixel and image resolution
 - (ii) Image Processing
 - (iii) Inversion of 3D images into 2D
 - (iv) Occlusion
 - (v) Analysis of Satellite Image
 - (vi) Biometric-based visual identification of a person.