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CIT-002

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

December, 2025

**CIT-002 : INTRODUCTION TO INFORMATION
TECHNOLOGY**

Time : 2 Hours

Maximum Marks : 50

Weightage : 75%

Note : *There are two Sections in this paper—
Section A and Section B. All the questions
in Section A are compulsory. Answer any
three questions from Section B.*

Section-A

Note : Question Nos. 1 to 10 carry 1 mark each.
These are multiple choice type questions
with one correct answer. Write the
answers of these questions in your
answer sheet. Question Nos. 11 and 12
are short answer type questions and
carry 5 marks each.

1. Which of the following information systems use advanced graphics and communications for strategic level of an organization ?
 - (a) Transaction Processing System
 - (b) Decision Support System
 - (c) Executive Support System
 - (d) Knowledge Work System

2. Which of the following is a component of Management Information System ?
 - (a) Word Processor
 - (b) Spreadsheet
 - (c) Presentation
 - (d) Finance and Accounting

3. Which of the following is a text creation tool for e-Learning ?
 - (a) XML
 - (b) VRML
 - (c) HTML
 - (d) Verilog

4. For secure transmission, data should be before its transmission.
 - (a) Hidden
 - (b) Encrypted
 - (c) Secured
 - (d) Authenticated
5. What is the science of measurement through non-contact sensing ?
 - (a) Photogrammetry
 - (b) Remote mapping
 - (c) Global Positioning System
 - (d) Carto mapping
6. Which of the following is an input device ?
 - (a) Printer
 - (b) Plotter
 - (c) Headphone
 - (d) Microphone
7. Which of the following control enables a user to choose more than one predefined option ?
 - (a) Check box
 - (b) Slider
 - (c) Buttons
 - (d) Window

8. Which of the following is a reason of digital divide ?
- (a) Lack of data
 - (b) Lack of education
 - (c) Lack of workforce
 - (d) Lack of financial analysis
9. The “marks obtained by a student” can be defined as :
- (a) Data
 - (b) Information
 - (c) Knowledge
 - (d) Wisdom
10. What is the effect of increase in elapsed time on value of information ?
- (a) The value remains unchanged
 - (b) The value increases
 - (c) The value decreases
 - (d) The value is not related to time
11. Define the term information with the help of an example. How is information different from data ? List *two* internal and *two* external sources of information. 5

12. What is an embedded system ? List any *two* applications of an embedded system. Explain the components of an embedded system with the help of a block diagram. 5

Section-B

Note : Answer any **three** questions from question no 13 to question no 16.

13. (a) What is 'Knowledge-gap hypothesis' ? How is it related to digital divide ? Explain the effect of digital divide (i) on employment and (ii) on development. 5
- (b) What is cyberspace ? What is a digital identity ? Explain the term non-repudiation in the context of digital identity with the help of an example. 5
14. (a) Differentiate between the following types of e-Commerce : 4
- (i) Business to Consumer (B2C) and Business to Business (B2B)
 - (ii) Consumer to Business (C2B) and Consumer to Consumer (C2C)

- (b) List the objectives of (i) e-Democracy and (ii) e-Governance. 3
- (c) Explain the use of *one* asynchronous interactive tool and *one* synchronous interactive tool in e-Learning. 3
15. (a) Explain different kinds of maintenance of Information Systems. 3
- (b) Explain the following core subsystems of a Management Information System : 4
- (i) Inventory and Materials Management
- (ii) Manufacturing and Logistics
- (c) Explain any *three* services provided by NICNET. 3
16. (a) List and explain the purpose of any *five* input devices. 5
- (b) Briefly explain the following terms in the context of computer vision : 5
- (i) Pixel
- (ii) Image Restoration
- (iii) Pattern Recognition
- (iv) Occlusion
- (v) Loss of Depth

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