CIT-002

CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)
Term-End Examination
December, 2020

CIT-002 : INTRODUCTION TO INFORMATION TECHNOLOGY

Time : 2 Hours   *Maximum Marks : 50*

Weightage : 75%

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

Section—A

Question no. **1** to 10 carry 1 mark each. They are all "fill in the blanks" pattern questions. Write your answer in the answer sheet. Question no. **11** and **12** carry **5** marks each.

1. ....is any computer process that converts data into information or knowledge.

P. T. O.

2. ....software e.g. Microsoft Excel, perform calculations on structured data and can also analyse data.

3. Cyberspace creates opportunities for theft of digital...........of a digital entity.

4. ....is increasingly being used in schools for the purpose of learning and training.

5. ATM in the context of Bank is........... .

6. The phase in which actual software code is written is called........... .

7. ....is a repository for stored data that is integrated and shared.

8. Washing machine is an example of...........system.

9. HCI stands for........... .

10. ....is an input device that allows you to control a pointer on a Graphical User Interface.

11. (a) What is the role of Sensors and Actuators in an embedded system ?   3

    (b) List the limitations of an MIS.   2

12. (a) Define the terms "Privacy" and "Message Integrity" in the context of security issues in e-Commerce. 3

   (b) Discuss uses of any *two* technologies that can be categoried as ICTs. 2

Section—B

13. (a) What are the *three* different types of Information ? 3

   (b) Suggest any *four* measures that can be taken to bridge the digital divide. 4

   (c) What are the differences between link and no-link architectures of cyberspace ? 3

14. (a) How does digital signature and certificate help in solving security issues of an e-Commerce system ? 3

   (b) What is e-Commerce ? What are its objectives ? List any *four* e-Governan projects in India. 4

   (c) Define the following terms in the context of e-Learning : 3

      (i) Dynamic process

      (ii) Platform independent

      (iii) Multi-channel

15. (a) Explain the importance of "Design" step in the process of development of an Information System. 3

(b) How does implementation of an MIS result in better quality control in an organisation ? Explain. 3

(c) Discuss any *two* IT projects implemented by NIC. 4

16. (a) List the factors that influence the choice of programming language for an embedded system. 3

(b) An application is to be developed for kids in the age-group of 2-4 years. Which two input and two output devices would you like to use for this application ? Justify your selection and also list features of the device selected. 4

(c) Explain the use of computer vision in development of Unmanned Aerial Vehicles (UAV). 3