

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

02072

June, 2019

**CIT-001 : FUNDAMENTALS OF COMPUTER
SYSTEMS**

Time : 2 hours

Maximum Marks : 50

(Weightage : 75%)

Note : *There are two sections in this paper, Section A and Section B. All the questions from Section A are compulsory. Attempt any three questions from Section B.*

SECTION A

1. Answer the following multiple choice questions : $10 \times 1 = 10$
- (a) Which one of the following is *not* a property of Algorithm ?
- (i) Finiteness
 - (ii) Definiteness
 - (iii) Input/Output
 - (iv) Defectivity
- (b) Flowcharting symbols are connected together by means of a/an
- (i) Oval
 - (ii) Rectangle
 - (iii) Connector
 - (iv) Diamond

- (c) Which one of the following is *not* a type of virus ?
- (i) Scores virus
 - (ii) Brain virus
 - (iii) Z-virus
 - (iv) Raindrops
- (d) SNMP stands for
- (i) Simple Network Management Protocol
 - (ii) Systematic Network Management Protocol
 - (iii) Symmetric Netcentric Management Proxy
 - (iv) Symmetric Netcentric Management Protocol
- (e) Which one of the following is *not* a mode of data communication ?
- (i) Simplex mode
 - (ii) Half-duplex mode
 - (iii) Full-duplex mode
 - (iv) Middle duplex mode
- (f) Guided media includes
- (i) Twisted pair cable
 - (ii) Coaxial cable
 - (iii) Optic fibre cable
 - (iv) All of the above
- (g) Touch screen is a type of
- (i) Input device
 - (ii) Output device
 - (iii) Storage device
 - (iv) Both (i) and (ii)

- (h) What does FTP stand for ?
- (i) File Transmission Protocol
 - (ii) File Transaction Problem
 - (iii) File Transfer Protocol
 - (iv) Fixed Transmission Protocol
- (i) A relational database consists of a collection of
- (i) Tables
 - (ii) Fields
 - (iii) Records
 - (iv) Keys
- (j) The term _____ is used to refer to a row.
- (i) Attribute
 - (ii) Tuple
 - (iii) Field
 - (iv) Instance

2. (a) Explain different types of Magnetic Memory. 5

(b) Write a C program to add two given numbers. 5

SECTION B

3. (a) Discuss various factors to be considered while selecting a modem for data communication. 5
- (b) How do you measure the speed of data transmission ? Explain with suitable example. 5
4. (a) Briefly explain any five network devices with examples. 5
- (b) Define Wireless Transmission. Explain various modes of wireless transmission. 5
5. (a) Draw a flow chart for finding area of a circle. 5
- (b) Discuss memory hierarchy of a computer system. 5
6. (a) Explain different types of threats for breaching the security of an organization. 5
- (b) Define software vulnerability. Explain different types of vulnerabilities with examples. 5
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