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CIT-001

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

December, 2020

**CIT-001 : FUNDAMENTAL OF
COMPUTER SYSTEM**

Time : 2 Hours

Maximum Marks : 50

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. Choose correct options : 1 × 10 = 10
- (a) DTP stands for :
- (i) Device Transfer Programs
 - (ii) Device Transfer Protocol
 - (iii) Desk Top Publishing
 - (iv) None of the above

- (b) A term associated with the comparison of processing speeds of different computer system is :
- (i) MIPS
 - (ii) CPS
 - (iii) EFTS
 - (iv) None of the above
- (c) EPROM stands for :
- (i) Erasable Programmable ROM
 - (ii) Electronic Programmable ROM
 - (iii) Electrically Programmable ROM
 - (iv) None of the above
- (d) Which device is used for reading answer sheet by means of light ?
- (i) OCM
 - (ii) OMR
 - (iii) MICR
 - (iv) None of the above

- (e) Combination of two or more networks is called :
- (i) Internetwork
 - (ii) WAN
 - (iii) MAN
 - (iv) LAN
- (f) Which topology covers security, robust and eliminating traffic factor ?
- (i) Mesh
 - (ii) Ring
 - (iii) Star
 - (iv) Bus
- (g) Computer virus program is usually hidden in a/an :
- (i) Operating System
 - (ii) Application Program
 - (iii) Disk Driver
 - (iv) Both (i) and (ii)

- (h) Which of the following is not a printer type ?
- (i) Double Printer
 - (ii) Dot-Matrix Printer
 - (iii) Line Printer
 - (iv) Laser Printer
- (i) Protocol which assigns IP address to client connected in internet is :
- (i) DHCP
 - (ii) IP
 - (iii) RPC
 - (iv) HTML
- (j) Computer Jargon, WWW stands for :
- (i) World Wide Web Worm
 - (ii) World Wide Women's Web
 - (iii) World Wide Wildlife Web
 - (iv) World Wide Women's Week

2. (a) Explain the arithmetic operators in C with suitable examples. 5
- (b) List any *five* differences between .EXE and .COM files. 5

Section—B

3. (a) What are the *two* basic types of Modems ? Compare between them. Also, write how the speed of modem is measured. 5
- (b) Define Virus and Anti-virus. Discuss the role of each in computer system. 5
4. (a) Write a C program to determine if a given number is even or odd. 5
- (b) What is Virtual Memory ? Explain its advantages. 5
5. (a) Define an Operating System. Differentiate between the serial processing and batch processing. 5
- (b) Draw and explain the basic structure of a Von Neumann machine. 5

6. (a) What are two basic methods of accessing information from various memory devices ?
Explain. 5
- (b) Briefly describe how data are stored on storage devices. 2
- (c) What is a Gateway ? How does it work ? 3