

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

00256

Term-End Examination

June, 2016

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

Time : 2 hours

Maximum Marks : 50

(Weightage : 75%)

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

SECTION A

1. Answer the following multiple choice questions : *10×1=10*

- (i) The two main parts of the CPU are
- (a) Control Unit and Memory
 - (b) Address and Register
 - (c) Address and ALU
 - (d) Control Unit and ALU

- (ii) Which of the following memories loses its contents when the computer is turned off?
- (a) RAM
 - (b) ROM
 - (c) PROM
 - (d) All of the above
- (iii) Which technology is used in the evaluation of aptitude test?
- (a) OCR
 - (b) OMR
 - (c) MICR
 - (d) MCR
- (iv) The time required to move the read/write head on a specific (address) track is known as
- (a) Seek time
 - (b) Latency time
 - (c) Search time
 - (d) All of the above
- (v) LCD stands for
- (a) Liquid Crystal Display
 - (b) Light Crystal Display
 - (c) Light Change Display
 - (d) Liquid Crystal Diode

(vi) Scanner is a type of _____ device.

- (a) Input
- (b) Output
- (c) Storage
- (d) Back-up

(vii) Operating system is a type of

- (a) Hardware
- (b) Software
- (c) e-book
- (d) e-table

(viii) Modem is an acronym for

- (a) Modulator demodulator
- (b) Modular Model
- (c) Modulator Mechanism
- (d) ModDemod

(ix) DNS stands for

- (a) Domain Name System
- (b) Domain Name Server
- (c) Device Name Signal
- (d) Domain Name Sight

- (x) Oracle is a
- (a) Database Management Software Package
 - (b) Spreadsheet
 - (c) Matlab package
 - (d) None of the above

2. (a) Write a C program to generate prime numbers between 1 to 50. 5
- (b) Draw a flow chart to convert temperature from Fahrenheit to Celsius. 5

SECTION B

- | | | |
|-----------|--|---|
| 3. | (a) Differentiate between internal modem and external modem with examples. | 5 |
| | (b) Differentiate between a bridge and a router. | 5 |
| 4. | (a) Define Communication Network. | 2 |
| | (b) Explain different types of Network Topology with examples. | 5 |
| | (c) What is the difference between .EXE & .COM files ? | 3 |
| 5. | (a) Summarize the features of Hierarchical database. | 5 |
| | (b) Explain the importance of ER diagrams. | 5 |
| 6. | (a) Write down the different types of policies for information security. | 5 |
| | (b) How can you prevent your system from virus attacks ? | 5 |
-