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CIT-001

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

June, 2020

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

Time : 2 Hours

Maximum Marks : 50

Note : (i) Question No. 1 and 2 are compulsory.

*(ii) Attempt any three questions from the
rest.*

1. There are *ten* True/False type questions below :

Write correct answer in your answer sheet :

1 each

- (a) ALU stands for Arithmetic and Logic Unit.
- (b) EPROM is a volatile memory.
- (c) A computer can think and make judgment on its own.

P. T. O.

- (d) Flow chart show flow of data through processing system.
 - (e) Switch statement in C language is used for multi way decision.
 - (f) In half-duplex data flow in only one direction.
 - (g) Bus topology cannot be used in LAN.
 - (h) Confidentiality is one of the aspects of data security.
 - (i) Float is not a data type in C programming language.
 - (j) Joke Trojan is a type of Trojan horse.
2. (a) Write a C program to generate prime numbers between 1 to 100. 5
- (b) Differentiate between Symmetric and Asymmetric key encryption. 5
3. (a) List and describe any *two* network applications. 5
- (b) What is Real Time System ? Explain its types. 5

4. (a) Explain various types of main memory. 6
(b) What is Star Topology ? Explain its advantages. 4
5. Draw a block diagram of a basic computer organisation and explain the functionality of each unit. 10
6. (a) Explain half duplex and full duplex transmission, with an example for each. 5
(b) Explain the kinds of possible attacks due to 'trojan horses'. 5