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CIT-001

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

December, 2021

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

Time : 2 Hours

Maximum Marks : 50

Note : *All the questions from Section A are compulsory. Answer any **three** questions from Section B.*


Section—A

1. Answer the following multiple choice questions. Only one of the answers is correct. (10×1=10)
- (a) Which of the following is not an output device ?
- (i) Printer
 - (ii) Monitor
 - (iii) Speaker
 - (iv) Mouse

- (b) Multimedia keyboard has :
- (i) 120–140 keys
 - (ii) 101–104 keys
 - (iii) 98 keys
 - (iv) None of the above
- (c) Which of the following is not a type of system software ?
- (i) Operating System
 - (ii) Translator
 - (iii) Word Processor
 - (iv) None of the above
- (d) In hard-real-time system job should be completed
- (i) within specified time period
 - (ii) in any time period
 - (iii) in finite time
 - (iv) None of the above

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- (e)  symbols is used to represent :
- (i) Entity
 - (ii) Attribute
 - (iii) Relation
 - (iv) Weak Entity type
- (f) Size of integer data type in C is :
- (i) 2 bytes
 - (ii) 4 bytes
 - (iii) 1 byte
 - (iv) 6 bytes
- (g) Which operator is used for not equal to ?
- (i) ==
 - (ii) +=
 - (iii) !=
 - (iv) >
- (h) Which of the following is not a type of security threat ?
- (i) Physical Security Threat
 - (ii) Network Security Threat
 - (iii) Software Security Threat
 - (iv) None of the above

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- (i) Which of the following is not a mode of wireless transmission ?
- (i) Satellite
 - (ii) Infrared
 - (iii) Optical Fiber
 - (iv) Mobile
- (j) Which of the following is not a network topology ?
- (i) Star
 - (ii) Ring
 - (iii) Tree
 - (iv) Branch
2. (a) Write a C program to find the average of three given numbers. 5
- (b) What is Modem ? List *three* functions of a modem. 5

Section—B

3. (a) What is Control Unit ? Explain the role of control unit in a computer. 5

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- (b) What is Operating System ? Briefly explain any *two* types of operating systems. 5
4. (a) Explain the process of encryption and authentication in public key cryptography. 5
- (b) What is synchronous transmission ? How is it different from asynchronous transmission ? 5
5. (a) What is the need of Security Measures ? Briefly explain password security threats. 5
- (b) What is LAN ? Explain characteristics and advantages of LAN. 5
6. (a) Briefly explain any *two* types of main memory. 5
- (b) What is Computer Virus ? Explain any *two* categories of computer viruses. 5