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CIT-001

CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)

Term-End Examination

□ 24 □ 4 December, 2019

CIT-001 : FUNDAMENTALS OF COMPUTER SYSTEMS

Time: 2 hours

Maximum Marks : 50

(Weightage: 75%)

Note: Questions number 1 and 2 are compulsory.

Attempt any three questions from the rest.

- There are ten true/false type questions below.
 Write the correct answer in your answer sheet.
 - (a) Control Unit (CU) of a PC controls the entire operations of a computer.
 - (b) When CPU runs a program, it fetches the program instructions directly from the Hard Disk.
 - (c) ASCII stands for American Standard Code for Information Interchange.
 - (d) DBMS does not help in removing duplicate data from the database.

- (e) Double is a data type in C programming language.
- (f) While loop and do-while loop are same.
- (g) An algorithm must always terminate after a finite number of steps.
- (h) A bridge cannot be used to connect two LANs.
- (i) Ring topology is also known as circular topology.
- (j) Generally optical cable can transfer data at a higher rate compared to coaxial cable.
- 2. (a) Draw an ER-diagram for the following relations (with primary key underlined): teacher (Emp_ID, tname, department, address)
 student (Reg_No, sname, father name, course_code, programme, year)
 class (tname, programme, department, Room_No, Emp_ID, course_code)
 - (b) Draw a flow chart to convert temperature from Fahrenheit to Celsius.
- 3. List and describe briefly the types of threats which can breach the network security of an organization.

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4.	(a)	List and describe the classification of printers on the basis of quality.	5
	(b)	Define Algorithm. Write an algorithm to find the area of a rectangle.	5
5.	(a)	Differentiate between internal modem and external modem with examples.	5
	(b)	What is computer virus? How can you prevent your system from virus attacks?	5
6.	(a)	Write a program in C language to find the average of three given numbers.	5
	(b)	Explain switch statement of 'C' with the	5