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No. of Printed Pages : 5

CIT-001

CERTIFICATE IN INFORMATION TECHNOLOGY (CIT) Term-End Examination December, 2015

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. In the following objective type questions, each question has four choices. Select the correct choice as your answer. If none of the choices is correct, then write 0 (zero) as your answer. Each objective type question carries 1 mark. Indicate your answer in the answer sheet. $10 \times 1=10$
 - (i) The main function(s) of a computer is/are
 - (a) Receive input and produce output
 - (b) Information processing
 - (c) Information storage
 - (d) All the above

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(ii) EEPROM can be erased by exposing it to

- (a) Sunlight
- (b) Ultraviolet radiation
- (c) Magnetic field
- (d) Electric charge
- (iii) The refresh rate of a monitor is measured in terms of
 - (a) Pixel
 - (b) Resolution
 - (c) Bits
 - (d) Hertz
- (iv) Which of the following is slowest in accessing data?
 - (a) Zip disk
 - (b) Hard disk
 - (c) Floppy disk
 - (d) Magnetic tape
- (v) Computer virus is a
 - (a) Hardware
 - (b) Software
 - (c) Memory chip
 - (d) All the above

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- (vi) Which of the following is *not* a property of Algorithm ?
 - (a) Finiteness
 - (b) Indefiniteness
 - (c) Input
 - (d) Output

(vii) ! = is a type of a/an _____ operator.

- (a) Comparison
- (b) Logical
- (c) Assignment
- (d) Arithmetic
- (viii) Ring topology is also known as
 - (a) Star topology
 - (b) Circular topology
 - (c) Bus topology
 - (d) Hybrid topology
- (ix) Which of the following layers manages connections between different application layers?
 - (a) Application layer
 - (b) Transport layer
 - (c) Network layer
 - (d) Session layer

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P.T.O.

- (x) VPN means
 - (a) Virtual Private Network
 - (b) Voice Public Network
 - (c) Void Private Network
 - (d) Visual Pen Network
- 2. (a) Write a C program to generate Fibonacci numbers between 0 to 50.
 - (b) What is Firewall? Name the different types of firewall.

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SECTION B

3.	(a)	Write any three advantages and three disadvantages of Bus topology. 6
	(b)	What is the difference between Symmetrickey and Asymmetric key encryptionsystems ?4
4.	(a)	Explain the uses of flow chart. 4
	(b)	Draw a flow chart to find the largest among three numbers x, y and z. 6
5.	(a)	Write a C program which reads two integers and finds the product of them. 4
	(b)	Write a C program to find the sum of the series $1^2 + 2^2 + 3^2 + \dots + 10^2$. 6
6.	Write	brief notes on the following : $4 \times 2\frac{1}{2} = 10$
	(a)	Memory Hierarchy
	(b)	Classification of Software
	(c)	Advantages of MS-Word
	(d)	Database Model
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