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XEV (H-I) - IT (1)

2016

Time : 3 hours Full Marks : 75

Candidates are required to give their answers in their own words as far as practicable.

> The questions are of equal value. Answer any five questions, selecting at least one from each group.

> > Group - A

What do you mean by central processing unit ? Describe in details about the various units of central processing unit with diagram.

- 2. What are the types of memories available in the computer system ? How are they organised in th hierarchy ? Explain with purpose.
- What is the purpose of the binary coding system ? Briefly explain the term ASCII and EBCIDIC.
- What do you mean by operating system ? What are the different types of operating system ? Elaborate it.
 - Explain about the term network topology. What are the different types of network topologies ? Explain it.

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(Turn over)

Group - B

- (a) Who developed C language ? Describe about the features of C language.
 - (b) What are the different types of operators available in C? Mention the operand and types they work with.
 - (a) What is the syntax of the if-else statement ? Draw its control flow-diagram.
 - (b) Write a program to find the sum of the first N natural number using a for loop.
 - What is a function ? How it is declared in C ? Explain the concept of call-by-value and call-by-reference parameters.
 - 9. What are pointers? What is the function of a pointer variable ? What are its uses ?

Group-C

- 10. What is DMA ciontroller ? Explain the basic direct memory access (DMA) operation for transfer of data bytes between memory and peripherals.
- Sketch the block diagram of IBM-PC and explain its characteristics. What is the difference between PC, PC-XT and PC-AT.
- 12. Explain the following (any three)
 - (a) VGA controller
 - (b) Arithmetic co-processor
 - (c) Clocks
 - (d) Microprocessor

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