2018

Full Marks: 75

Time: 3 hours

The questions are of equal value

Answer five questions, selecting at least one from each Group

Group-A

- 1. Sketch the block diagram of computer. Discuss the basic organization of computer system and explain the function of various units of a computer system.
- 2 Explain the various generations of computer.
 - 3. What do you mean by memory organization? What are its advantages? How is PROM different from EPROM?
 - (a) Explain the term ASCII and EBCDIC codes.
 - (b) Perform the following conversions:
 - (i) Convert binary 00011011 to decimal

- (ii) Convert decimal 278 to binary
- (iii) Convert 19B116 to binary.
- 5. What do you mean by programming language? Describe machine, assembly and high-level language with its merits and demerits.

Group-B

- 6. What is array? How can you create an array using 'C' programming language? Explain with example.
 - 7. What do you mean by structured programming? Explain top-down and bottom-up approaches of structured programming.
 - 8. What are the different types of operators available in 'C' programming language? Explain with suitable example.
 - 9. (a) To print a triangle of star (*) using loop like

using 'C' programming language.

(b) Explain the concept of call by value and call by reference parameters with examples.

Group-C

- Explain the difference between RISC and CISC characteristics.
- Discuss the evolution of microprocessor.
 Draw the architecture of INTEL 8086 microprocessor.
- PPULearn.com

 12. Write short notes on any three of the following:
 - (a) IBM-PC
 - (b) Register
 - (c) Arithmetic coprocessor
 - (d) VGA controller
 - (e) Clocks.

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