2011

Time : 3 hours

Full Marks : 80

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

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group – A

(Objective Type Questions)

(Compulsory)

Answer all questions.

1. Choose the correct answer of the following:

   $2 \times 10 = 20$

(a) The access method used for magnetic tape is _________.

   (i) Direct

   (ii) Random

JX – 16/3

(Turn over)
(iii) Sequential  
(iv) None of the above  

(b) The difference between memory and storage is that the memory is ________ and storage is ________.  
(i) Temporary, Permanent  
(ii) Permanent, Temporary  
(iii) Slow, Fast  
(iv) None of the above  

(c) The language the computer can understand and execute is called:  
(i) Machine language  
(ii) Application software  
(iii) System program  
(iv) None of the above  

(d) Which of the following devices can be used to directly input printed text?  
(i) OCR  
(ii) OMR
(iii) MICR
(iv) None of the above

(e) CD-ROM is a:
   (i) Semiconductor memory
   (ii) Memory register
   (iii) Magnetic memory
   (iv) None of the above

(f) Actual execution of instructions in a computer takes place in:
   (i) ALU
   (ii) Control unit
   (iii) Storage unit
   (iv) None of the above

(g) Operating System:
   (i) Link a program with subroutines it refers
   (ii) Provides a layered, user friendly interface
   (iii) Enables a programmer to draw a flow chart
   (iv) None of the above
(h) Modem stands for:
   (i) A type of secondary memory
   (ii) Modular demodulator
   (iii) Mainframe operating system
   (iv) None of the above

(i) Ethernet uses:
   (i) Bus topology
   (ii) Ring topology
   (iii) Mesh topology
   (iv) None of the above

Group – B

(Long-answer Type Questions)

Answer any four of the following: \(15 \times 4 = 60\)

2. (a) What is a chart in EXCEL? Explain different types of charts used in EXCEL. Explain PIVOT chart report.
(b) Briefly explain the basic units MS Word. Explain the concept of header and footer.

3. (a) What is a number system? How do you convert fractional decimal value to Binary number? Give an example.

JX – 16/3 \( \text{(4)} \) Contd.
(b) What is Internet? Discuss, how Internet works?
   Also define application of Internet.

4. (a) What is a Network Operating System?
     Distinguish between Network Operating System and Distributed Operating System.

   (b) Define Operating System. What are its characteristics? How can we interact with
        Operating System?

5. Discuss the advantages and disadvantages of:
   (a) Machine Language
   (b) Assembly Language
   (c) High Level Language (HLL)

6. What is a memory? Differentiate between primary and secondary memory.

7. Distinguish between the following:
   (a) Input devices and Output devices
   (b) RAM and ROM
   (c) BCD and EBCDIC

JX – 16/3 (5) (Turn over)

9. What do you mean by computer network? Describe its advantages and disadvantages. Also explain various types of networks.