

Roll No.

Total No. of Questions : 09]

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MCA (Sem. – 1st)
INTRODUCTION TO INFORMATION TECHNOLOGY
SUBJECT CODE : MCA – 101
Paper ID : [B0101]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Attempt any one question from each Sections **A, B, C, and D.**
- 2) Section – E is **Compulsory.**
- 3) Use of non-programmable **Scientific Calculator** is allowed.

Section - A

(1 × 10 = 10)

- Q1)** What is computer? Draw and explain the block diagram of computer. Also discuss various applications of computer.
- Q2)** Write note on the following :
- (a) Complement schemes
 - (b) ASCII code
 - (c) BCD
 - (d) Excess-3 Code

Section - B

(1 × 10 = 10)

- Q3)** What are various data communication equipments? Explain various data communication equipment with their merits and demerits.
- Q4)** Write note on the following :
- (a) System software
 - (b) Fourth generation language
 - (c) CPU
 - (d) Disadvantages of machine language

Section - C

(1 × 10 = 10)

- Q5)** What is an operating system? Explain various types of operating system with their advantages and disadvantages.
- Q6)** What is computer network? What are its advantages and disadvantages? Explain various types of computer network.

Section - D

(1 × 10 = 10)

- Q7)** What is MIS? What are its characteristics? Explain how MIS is different from DSS.
- Q8)** What is remote sensing and inventory control? Explain how computer is used in remote sensing and inventory control.

Section - E

Q9)

(10 × 2 = 20)

- a) What are advantages and disadvantages of second generation computer? Explain.
- b) What are minicomputer and main frame computer?
- c) What is ROM? Explain various types of ROM.
- d) What is thermal printer? Explain.
- e) What are functions of operating system?
- f) What is assembly language? How it is different from machine language?
- g) What are various network protocols? Explain.
- h) What are various network topologies? Explain advantages and disadvantages of bus topology.
- i) What is DVD? How it is different from CD.
- j) Draw and explain the structure of hard disc.

