

Roll No. ....

Total No. of Questions : 09]

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**MCA (Sem. – 1<sup>st</sup>)**  
**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.

and disadvantages

- Q6)** 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.

