

Roll No. ....

Total No. of Questions : 09]

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## Paper ID [B0101]

(Please fill this Paper ID in OMR Sheet)

MCA (Sem. - 1<sup>st</sup>)

INTRODUCTION TO INFORMATION TECHNOLOGY (MCA - 101)

Time : 03 Hours

Maximum Marks : 60

### Instruction to Candidates:

- 1) Attempt any one question from each sections A, B, C & D.
- 2) Section E is **compulsory**.
- 3) Use of Non - programmable **Scientific Calculator** is allowed.

### Section - A

(1 × 10 = 10)

- Q1) (a) State the basic units of the Computer. Name the three subunits, which make up the CPU and give the function of each of the units.
- (b) What are the advantages and disadvantages of microcomputers over mini computers?

Q2) Fill in the blanks:

Binary	Octal	Decimal	Duodecimal	Hexadecimal
11111111	-----	-----	-----	-----
-----	01234567	-----	-----	-----
-----	-----	678901234	-----	-----
-----	-----	-----	89ab0123	-----
-----	-----	-----	-----	Cdef0123

### Section - B

(1 × 10 = 10)

- Q3) (a) List various media for data storage devices. Give their principle of working.
- (b) List various input output devices and explain any one of them.
- Q4) List various data communication equipment. What do you understand by system software and application software? Discuss them with applications.

**Section - C**

**(1 × 10 = 10)**

- Q5)** What do you understand by operating system? List names of some of the operating system. Give at least four commands from each operating system.
- Q6)** What do you understand by Internet? Discuss briefly about FTP, Telnet, WWW and Internet chatting.

**Section -D**

**(1 × 10 = 10)**

- Q7)** What do you understand by MIS? At what level this system supports managers. How is different from DSS.
- Q8)** Write short notes on the following:
- (a) Weather forecasting.
  - (b) Computers in Medical.

**Section - E**

**(10 × 2 = 20)**

- Q9)**
- a) Convert the following numbers to octal number and vice versa:-
    - (i) 111101010    (ii) 10101000
  - b) Why 2's complement is used in computers for representation of negative numbers?
  - c) Realize an OR gate using NAND gates only.
  - d) What is FTP?
  - e) What is use of telnet?
  - f) What is TCP/IP protocol different from OSI layer?
  - g) Differentiate between Batch Programming and Multiprogramming operating system.
  - h) How email is delivered to its recipient.
  - i) What are the applications of Computers in Banks?
  - j) Differentiate between ROM and RAM.

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