Roll No. ....

Total No. of Questions : 09]   [Total No. of Pages : 02

Paper ID [B0101]

(Please fill this Paper ID in OMR Sheet)

MCA (Sem. - 1ˢᵗ)
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.

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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

Q9)

(10 × 2 = 20)

a) Convert the following numbers to octal number and vice versa:-

(i) 11101010   (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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