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Total No. of Questions: 09]

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Paper ID [MC101]

(Please fill this Paper ID in OMR Sheet)

MCA (Sem. - 1st)

INTRODUCTION TO INFORMATION TECHNOLOGY (MCA - 101) (N2)

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.

Section - A

 $(1 \times 10 = 10)$

Q1) Fill in the blanks.

				cdef
			89ab	
	·	6789		
	4567		*** No. and and the same	
10101010				
Binary	Octal	Decimal	Duodecimal	Hexadecimal

- **Q2)** (a) Draw the block diagram of computer and explain the function of each block.
 - (b) Perform binary subtraction using 2's complement (i) 10101010-01010101 (ii) 01010101-10101010.

Section - B

 $(1 \times 10 = 10)$

- **Q3)** (a) Differentiate between High level language, assembly level language and machine language.
 - (b) List various input output devices and explain any one of them.
- **Q4)** What do you understand by system software and application software? Discuss them with applications.

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Section - C

 $(1 \times 10 = 10)$

- **Q5)** What do you understand by Operation System? Give its various views. What are the services provided by operating system?
- Q6) What do you understand by Internet? Discuss its various applications.

Section - D

 $(1 \times 10 = 10)$

- Q7) What do you understand by Decision support system? At what level this system supports managers. How is different from MIS?
- **Q8)** Write short notes on the following:
 - (a) Inventory Control.
 - (b) Remote sensing.
 - (c) Multilingual applications.

Section - E

 $(10 \times 2 = 20)$

- a) Convert the following numbers to hexadecimal number and vice versa:(i) 101010 (ii) 0101000.
- b) Why 2's complement is used in computers for representation of negative numbers?
- c) Realize an And gate using NOR gates only.
- d) Differentiate between combinational circuit and sequential circuit?
- e) Differentiate between ROM and RAM.
- f) What is telnet?
- g) What is TCP/IP protocol?
- h) Dedifferentiate between on line and Real time operating system.
- i) How email is delivered to its recipient?
- j) What are the applications of Computers in Railways.

