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Total No. of Questions : 09]

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## MCA (Sem. - 1st)

# INTRODUCTION TO INFORMATION TECHNOLOGY

## SUBJECT CODE : MCA - 101 (N2)

### Paper ID : [B0101]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

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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

*(10 × 1 = 10)*

*Q1)* Draw the block diagram of a computer system and discuss about each part in detail.

*Q2)* What are the different character codes available? What is the use of different character codes? Discuss and compare the different character codes.

## Section - B

*(10 × 1 = 10)*

*Q3)* Write short note on:

(a) System software.

(b) Assembly language.

*Q4)* How the programming languages can be classified? What is the difference and relation between machine code, assembly language and high level languages?

## Section - C

*(10 × 1 = 10)*

*Q5)* What are the online and real time operating systems? How these are different from other operating systems? Give the requirements of a real time operating system.

*Q6)* Write short note on:

(a) Network protocols.

(b) TELNET.

## Section - D

*(10 × 1 = 10)*

*Q7)* What is the decision support system? How it is helpful for the development of computer based applications? Illustrate with the help of an example.

*Q8)* How the information technology is helpful for the daily life applications of human beings? What are the different applications of Information technology?

## Section - E

*(10 × 2 = 20)*

*Q9)*

a) How you can classify the different computers?

b) Convert the hexadecimal number 3DB to octal.

c) What are the different complement schemes of number systems?

d) What is the difference between system and application software?

e) What are the fourth generation languages?

f) What is Cache memory?

g) What is the different between multiprogramming and multiprocessing?

h) What are the different network topologies for computer networking?

i) What is FTP and what is its use?

j) What are the multilingual applications?