Roll No. ....

Total No. of Questions : 09]

[Total No. of Pages : 02

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

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) What are the basic components of a computer system? Discuss each part in detail with the help of a block diagram.

Q2) (a) What are the different number systems available? Why we need these different number systems?

(b) What is the different between ASCII and BCD codes?

Section - B

(1 × 10 = 10)

Q3) Write short note on :

(a) CPU storage devices.

(b) Assembly languages.

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

Section - C

(1 × 10 = 10)

Q5) What are the different types of operating systems available? Discuss in detail about network operating system.

Q6) Write short note on :

(a) Network communication devices.

(b) World Wide Web.

P.T.O.

Section - D

$(1 \times 10 = 10)$

Q7) What is the decision support system? What is its role in the development of computer based applications? Illustrate with the help of an example.

Q8) Discuss the different types of applications for which information technology is helpful.

Section - E

$(10 \times 2 = 20)$

Q9)
   a) What are the different characteristics of computers?

   b) Convert the hexadecimal number 57 to octal.

   c) What is the Excess-3 code?

   d) What do you mean by system software and application software?

   e) What are the fourth generation languages? How these are different from high level languages?

   f) What is VDU?

   g) What is the batch processing? How it is different from multiprocessing?

   h) What is TCP/IP protocol?

   i) What is World Wide Web?

   j) What are the different scientific applications of information technology?

☒ ☒ ☒ ☒