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DE-1711

B. Sc. (I.T.) (Sem. I) Examination

March / April - 2016

103 - Fundamental of Computer

Time : Hours] [Total Marks : **70**

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ B. Sc. (I.T.) (SEM. 1)

Name of the Subject :

☛ 103 - FUNDAMENTAL OF COMPUTER

☛ Subject Code No. : 1 7 1 1 ☛ Section No. (1, 2,.....) : Nil

Seat No. :

Student's Signature

(2) Draw figure wherever necessary.

(3) Figures to the right indicate full marks.

1 Answer the following questions in short : (any **seven**) **14**

(1) Explain Point and Draw devices. Give examples.

(2) Define Computer.

(3) Give the full form of following :
MICR, CPU, VLSI, CRT.

(4) Give difference between Compiler and interpreter.

(5) Explain System Software.

(6) What is ASCII?

(7) What is Relative addressing?

(8) What is Data? How is it stored?

(9) What do you mean by Cache Memory?

2 (a) Explain the classification of computers. **7**

(b) Explain the evolution of Operating Systems. **7**

OR

(b) What are the responsibilities of Operating Systems? **7**

3 (a) What is ROM? Explain various types of ROM and their uses. **7**

(b) Explain various Input Devices. **7**

OR

(b) Explain the mechanism of Magnetic Disk in detail. **7**

4 (a) List and explain any five applications of computers. **7**

(b) Explain Conditional Formatting. **7**

OR

(b) Explain Booting Process in detail. **7**

5 Attempt any seven of the following : **14**

(1) $11001100_2 - 10111011_2$

(2) $1100100_2 / 11_2$

(3) $ABCD_{16} - 12BC_{16}$

(4) $45AB.CD_{16} - 12BC_{16}$

(5) $7654_8 - 4567_8$

(6) Convert 11010011_2 to Octal

(7) Convert 10010110_2 to Hexadecimal

(8) Subtract 10100_2 from 11000_2 using 2's Complement.