UA-3703

First Year B. C. A. (Sem. - I) Examination
March/April – 2012
103 - Introduction to Computers

Time : 3 Hours]

[Total Marks : 70

Instruction :

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

Name of the Examination :

☛ **FIRST YEAR B. C. A. (SEM. - 1)**

Name of the Subject :

☛ **103 - INTRODUCTION TO COMPUTERS**

☛ Subject Code No. : | 3 | 7 | 0 | 3 | ☛ Section No. (1, 2,.....) : **NIL**

Seat No. :

Student's Signature

1   Answer the following in brief :   12

(1) What is difference between 3rd and 4th generation of computers ?

(2) What is UNICODE ?

(3) What is EEPROM ?

(4) List different types of printers, based on features it offers.

(5) What is the function of CPU ?

(6) What is write protect notch ?

(7) What does microprocessor do ?

(8) What is PDA ?

(9) What is data bus and address bus ?

(10) Define term volatile and nonvolatile.

(11) What is machine cycle ? Give its importance.

(12) Justify, computer is digital device.

2 Answer the following questions :   **13**

   (1) Write a short note on history of computers.   **7**

   (2) Write a short note on palmtop and PDA.   **6**

<p style="text-align:center">OR</p>

   (2) What is port ? Explain USB port in detail.   **6**

3 Attempt any **three** :   **18**

   (a) Explain RAM in detail.

   (b) Explain addressing mode in detail.

   (c) Write a short note on block diagram of computer and explain its functional units.

   (4) Explain plotters in detail.

4 Attempt any **two** :   **12**

   (1) Write a short note on laser printer.

   (2) Write a short note on Hard disk.

   (3) Write a short note on DVD ROM.

5 Attempt any **six** :   **15**

   (1) $(999)_{10} = (?)_2$

   (2) $(BB)_{16} = (?)_2$

   (3) $(3233)_8 = (?)_{16}$

   (4) Subtraction : $(1100100)_2 - (1000110)_2$

   (5) Addition : $(BCA)_{16} + (BBA)_{16}$

   (6) Addition : $(10010)_2 + (1001)_2$