N-1403

First Year B. C. A. (Sem. I) Examination

October / November - 2011

Paper-103 : Introduction to Computers

Time : 3 Hours] [Total Marks : 70

Instructions :

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

Name of the Examination :
☛ F. Y. B. C. A. Sem. I

Name of the Subject :
☛ Paper-103: Introduction to Computers

☛ Subject Code No. : 1 4 0 3 ☛ Section No. (1, 2,.....) : Nil

Seat No. :

Student's Signature

1 Answer the following in brief : 12

(i) Define term software. What are the different types of software ?

(ii) What is BIOS ?

(iii) What do you mean by cache memory ? What is its work?

(iv) Define seek time and latency time.

(v) Differentiate CRT and LCD monitor.

(vi) What is ASCII ?

(vii) What is direct addressing mode ?

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

(ix) Define term port.

(x) What is EBCDIC ?

(xi) Justify, computer is digital device.

(xii) What is the function of CPU ?

2 Answer the following questions : 13

(i) Write a short note on the generation of computers. 7

(ii) Write a short note on microcomputer. 6

OR

(ii) Explain fetch cycle and execution cycle in detail. 6

3 Attempt any three : 18

(i) Give the difference of the following :

(a) Line printer Vs dot matrix printer

(b) Application software Vs system software

(ii) What is ROM ? Explain different types of ROM.

(iii) Give the difference of following :

(a) RAM Vs ROM

(b) Cache memory Vs Virtual memory

(iv) Write a short note on DVD ROM.

4 Attempt any two: 12

(i) Write a short note on floppy disk.

(ii) Write a short note on inkjet printer.

(iii) Explain flat panel monitor in detail.

5 Attempt any Six : 15

(i) $(987)_{10} = (?)_2$

(ii) $(BBA)_{16} = (?)_2$

(iii) $(5050)_8 = (?)_{16}$

(iv) Addition : $(1110)_2 + (1000)_2$

(v) Subtraction : $(10010)_2 - (1001)_2$

(vi) Subtraction : $(BCA)_{16} - (BBA)_{16}$.