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RE-1803

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

April / May – 2010

Introduction to Computers - 103

Time : 3 Hours] [Total Marks : 70

Instrucitons :

(1)

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. 1)

Name of the Subject :

☛ INTRODUCTION TO COMPUTERS - 103

☛ Subject Code No. : 1 8 0 3 ☛ Section No. (1, 2,.....) : NIL

Seat No. :

Student's Signature

(2) Draw figures wherever necessary.
(3) Q. 1 is compulsory.
(4) Figures to the right indicate full marks.

Q-1. Answer the following in brief. **(10)**

1. What is VLSI?
2. What is UNIVAC ?
3. What is ASCII?
4. Differentiate between digital and analog computer.
5. What is EEPROM?
6. What is microprocessor?
7. What do you mean by system software? Give examples.
8. Give difference between CISC processor and RISC processor.
9. What is Flash memory?
10. Differentiate between SRAM and DRAM.

Q-2. (a) Explain Block Diagram of a computer in detail. **(7)**
(b) Explain the architecture of Floppy Disk. **(6)**
(c) What do you mean by portable computer? **(2)**

OR

Q-2. (a) Explain different characteristics of computer in detail. **(7)**
(b) Explain optical Scanner in detail. **(6)**
(c) What do you mean by 64-bit computer? **(2)**

Q-3. (a) What is ROM ? Explain different types of ROM. **(5)**

(b) Explain different Addressing modes **(6)**

(c) Explain any one non-impact printer. **(4)**

OR

Q-3. (a) Explain laser printer in detail. **(5)**

(b) Explain the architecture of CRT monitor. **(6)**

(c) Explain plotter in detail. **(4)**

Q-4. (a) Explain different types of phases of machine cycle. **(5)**

(b) Explain the concept of virtual memory and how it works. **(5)**

(c) State benefits of storage devices. **(5)**

OR

Q-4. (a) Explain different character codes in detail. **(5)**

(b) What is seek time, latency and transfer rate? **(5)**

(c) Explain types of ports in detail. **(5)**

Q-5. **Attempt any 5 of the following.** **(15)**

1. 11110011 – 101111
2. 111001 ÷ 101
3. $(ABC)_{12} - (12B)_{12}$
4. $(45AD.EF)_{12} + (12BC.45)_{12}$
5. Convert $(11010011)_2$ to hexadecimal
6. Convert $(ABC56)_{12}$ to Octal
7. Subtract 10101 from 10111 using 2's complement.