



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)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य कर्जवी.  
 Fillup strictly the details of signs on your answer book.

Seat No. :

Name of the Examination :

Name of the Subject :

Subject Code No. :     Section No. (1, 2,.....):

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.  $111001 \div 101$
  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.
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