Sardar Patel University

F Y B C A 1st Semester(CBCS) Examination 2013

US01CBCA02:Computer Organization

Date : 21/11/2013:Thursday
Time :2:30 p.m. to 5:30 p.m.   Total Marks: 70

Q.1   MCQ   [10]

1   Numbers are stored and transmitted inside a computer in _____.
    A. binary form   B. ASCII code form
    C. decimal form   D. alphanumeric form

2   The ALU and CU are jointly known as _____ .
    A. RAM   B. ROM
    C. CPU   D. None of the above

3   The digit F in Hexadecimal system is equivalent to _____in decimal system.
    A. 16   B. 15
    C. 17   D. 8

4   ASCII equivalent of A is _____ .
    A. 66   B. 67
    C. 68   D. 65

5   Extra bit added to a string of bits to detect errors is known as_____.
    A. Additional bit   B. Correction bit
    C. Parity bit   D. updation bit

6   Pipeline is referred as _____.
    A. SISD   B. SIMD
    C. MISD   D. MIMD

7   MIMD is_____.
    A. Multiple Instruction Multiple Data   B. Multiple Items Multiple Data
    C. Multiple Instruction Multiple Database   D. None of above

8   Which one is a pointing device .
    A. scanner   B. keyboard
    C. Mouse   D. none of these

9   Which one is the non-impact printer.
    A. drum printer   B. laser printer
    C. character printer   D. none of these

10 Monitor is made up of _____.   [P.T.O]
    A. CRT   B. CPU
    C. keyboard   D. none of these

Q.2 **Short questions (Attempt any 10)** [20]

1. Define : Software with examples.
2. List any four applications of computer.
3. Explain octal number system.
4. Explain 1's complement method with example.
5. Explain signed magnitude method with example.
6. List steps of Instruction Execution cycle.
7. List stages of pipelining.
8. Explain RAM.
9. What do you mean by PC and IR?
10. Explain inkjet printer in brief ?
11. What is Immediate addressing?
12. Define stack addressing.

Q.3 a) Draw the Block diagram of Computer and explain its functions. [5]
b) Explain hexadecimal number system with example. [5]

OR

a) Explain 1st and 2nd generations of computers. [6]
b) Explain binary addition and subtraction with example. [4]

Q.4 a) Explain UNICODE. [4]
b) Explain Hamming code method with example. [6]

OR

a) Draw the diagram of the organization of a simple computer. [6]
b) Define Excess notation with example. [4]

Q.5 Explain Hard disk with its diagram. Also explain advantages and disadvantages of it. [10]

OR

Explain CD with its advantages and disadvantages. [10]

Q.6 a) Explain Scanner. [5]
b) Explain Keyboard with all kind of keys. [5]

OR

a) Differentiate between dot-matrix and laser printer. [4]
b) Explain any three Addressing Technique in detail with examples. [6]

— ×× —