

Roll No.

BCA-302(O)

B. C. A. (Third Semester) EXAMINATION, Dec., 2013

(Old Course)

Paper Second

COMPUTER ORGANIZATION

Time : Three Hours]

[Maximum Marks : 75

Note : Section A is compulsory. Attempt any *seven* questions out of ten from Section B and any *one* question from Section C.

Section—A

18

(Numerical/Analytical/Problematic Questions)

1. (a) Convert the following numbers to decimal :

(i) $(110110)_2$

(ii) $(2573)_6$

(iii) $(2A3B)_{16}$

(iv) $(1234)_9$

(b) What is ASCII Code ? Explain it.

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2. (a) Draw the basic diagram of computer organisation and explain its component.
(b) What is ALU ? Explain arithmetic logic unit operations.

Section—B

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(Short Answer Type Questions)

3. Explain the term of micro-programming.
4. What is the difference between static RAM and dynamic RAM ?
5. What is the difference between the following :
(i) Light Pen and Digitizer
(ii) Mouse and Scanner
6. Explain the following :
(i) SISD
(ii) SIMD
(iii) MISD
(iv) MIMD
7. What is Vector Processing ? Explain its specific features.
8. What is the Computer ? Explain the characteristics of computer.
9. Explain the mode of data transfer.
10. Explain the error detection and correction code.
11. Convert the following decimal numbers to binary :
(i) (435)₁₀
(ii) (1694)₁₀
(iii) (32)₁₀
(iv) (135)₁₀

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12. What is Pseudo Instruction ?

Section—C

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(Long Answer Type Questions)

13. What is meant by Direct Memory Access (DMA) ? Explain with suitable diagram.
14. Explain the following :
(i) Micro and Mini computer
(ii) CPU organization
(iii) ROM
(iv) Registers

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