

2090

B.C.A. Examination, 2015

Third Semester

Third Paper

(Computer Architecture & Assembly Language)

Time : Three Hours

Maximum Marks : 75

Note: Attempt any five questions. All questions carry equal marks.

1. Explain the function of the following : 5x3
 - (a) Computer Organisation
 - (b) Register Bank
 - (c) Multiplexing of Address/Data Bus

2. What do you mean by memory mapping?
Explain Cache memory in detail with suitable example.

15

(2)

3. Explain the instruction format used in Computer. Write the various addressing modes with example. 15
4. Explain RISC and CISC pipelining vector & array processing. 15
5. Write short note on : 5x3
- (a) Book's Algorithm
 - (b) Floating point representation
 - (c) Multiplication of Binary numbers
6. What is interrupt & interrupt call location? Explain the priority interrupts in detail. 15
7. What is the basic application of DMA? Explain the serial and parallel communication techniques. 15
8. Explain & draw the architecture of 8085 Microprocessor. 15
9. What are the basic languages used in Computer? Explain assembly language in detail with suitable examples.

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10. Write short notes on any two of the following : 3x5
- (i) Timing & Control in CPU
 - (ii) Assembler
 - (iii) Macros
 - (iv) Data Transfer Instruction

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