

A  
(21222)

B.C.A.-III Sem.

(Printed Pages 3)  
Roll No. ....

**18013**

**B.C.A. Examination, Dec. 2022**

**Computer Architecture and  
Assembly Language**

**(BCA-303)**

*Time : Three Hours ] [Maximum Marks : 75*

**Note :** Attempt questions from **all** sections  
as per instructions.

**Section-A**

**(Very Short Answer Questions)**

**Note :** Attempt **all** questions.  $5 \times 3 = 15$

1. What is the use of register? Name any two registers.
2. Differentiate between hardwired and micro-programmed controls.
3. Distinguish between fixed point and floating point representation.

**P.T.O.**

4. What are Macros?
5. What is Cache memory? Describe its operations in brief.

**Section-B**

**Note :** Attempt any **two** questions.

$2 \times 7\frac{1}{2} = 15$

6. Define Interrupt. Explain its various types.
7. What is Booth algorithm? Explain its advantages.
8. Differentiate between RSIC and CISC.

**Section-C**

**Note :** Attempt any **three** questions.

$3 \times 15 = 45$

9. Describe Direct Memory Access (DMA). Explain its functioning of DMA transfer with the help of diagram.
10. What is Priority Interrupt? Explain Polling and Daisy chaining priority.
11. Differentiate between:

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- (a) General purpose and Special purpose register
- (b) Vector processing and Array processing
- (c) Direct and Indirect address instruction

12. What do you mean by Addressing Modes?  
Explain various addressing modes with the help of examples.
13. Draw and explain the architecture of 8085 microprocessor along with all its registers and instruction set.