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(21224) Roll No.
B.C.A.-III Sem.

18013

B.C.A. Examination, Dec.-2024

**Computer Architecture and
Assembly Language**

(BCA-303)

Time : Three Hours] [Maximum Marks : 75

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

Section-A

(Very Short Answer Type Questions)

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

1. What is the difference between hardwired and micro-programmed control.
2. What is Instruction Cycle. Explain.

3. What do you understand by booth's Algorithm.
4. What is Input/output programming.
5. What is Cache Memory? Describe it's operations in brief.

Section-B

(Short Answer Type Questions)

Note : Attempt any **two** questions. $2 \times 7\frac{1}{2} = 15$

6. What do you understand by addressing mode. Explain with suitable example.
7. What is memory register? Explain the functions of memory register.
8. What is the use of macros in I/C Instruction.

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Section-C

(Long Answer Type Questions)

Note : Answer 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. Draw and explain the Architecture of 8085 Microprocessor along with all its Registers and Instruction set.

11. Write a short notes on :

(a) Architecture of 8085

(b) Floating Point Representation

(c) Memory Influencing Memory

12. Discuss the following in brief :

(a) Index Register

(b) Input/output processor

(c) General Register Organization

13. What is priority interrupt? Explain polling and chaining priority.

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