



**K20U 1936**

Reg. No. : .....

Name : .....



**III Semester B.C.A. Degree CBCSS (OBE) – Regular  
Examination, November 2020  
(2019 Admission Only)  
Core Course**

**3B06BCA : INTRODUCTION TO MICROPROCESSORS**

Time : 3 Hours

Max. Marks : 40

**PART – A  
(Short Answer)**

Answer **all** questions : (6×1=6)

1. Define Stack.
2. Explain Bus Cycle.
3. Define bandwidth.
4. What is RISC processors ?
5. Explain instruction register and decoder.
6. Explain the use of INTA pin.

**PART – B  
(Short Essay)**

Answer **any 6** questions : (6×2=12)

7. Explain Interrupts and Interrupt Service Routines.
8. Explain the various features of Microprocessors.
9. Explain any two flag registers.
10. Explain instruction to transfer the address.

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11. Mention iteration control instructions.
12. Explain Assembler directives.
13. Explain I/O mapped memory.
14. State the uses of flag manipulation instructions.

**PART – C**  
**(Essay)**

Answer **any 4** questions :

**(4×3=12)**

15. Explain General purpose registers.
16. Explain interrupt cycle of 8086.
17. Explain Machine Language Instruction format with example.
18. Explain addressing modes in 8086.
19. Differentiate maskable and non maskable interrupts.
20. List the data transfer instruction sets in 8086 microprocessor.

**PART – D**  
**(Long Essay)**

Answer **any 2** questions :

**(2×5=10)**

21. Explain Pin diagram of 8086 Microprocessor.
  22. Explain features and architecture of DMA Controller 8257.
  23. Discuss the Bus Organization of 8085 microprocessor with diagram.
  24. Explain generations of Microprocessors with suitable examples.
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