



K22U 0383

Reg. No. :

Name :

**VI Semester B.Sc. Degree (CBCSS – OBE – Regular) Examination, April 2022
(2019 Admission)**

**CORE COURSE IN COMPUTER SCIENCE
6B14CSC : Computer Organization**

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short Answer)**

Answer **all** questions.

(6×1=6)

1. Define micro-operation.
2. What is a bus ?
3. What is RPN ?
4. What is BSA ?
5. What is effective address ?
6. What is priority interrupt ?

**PART – B
(Short Essay)**

Answer **any 6** questions.

(6×2=12)

7. Write a short note on Three-State Bus Buffers.
8. Differentiate between instruction code and operation code.
9. Write a short note on Instruction cycle.
10. Differentiate between isolated and memory mapped I/O.
11. What is meant by interrupt cycle ?

P.T.O.



12. Explain any two addressing modes of the CPU.
13. Differentiate between direct and indirect address modes.
14. Give any two interconnection structures for a multi-processor system.

PART – C
(Essay)

Answer **any 4** questions.

(4×3=12)

15. Explain cache memory.
16. What are the advantage and disadvantage of three-address format ?
17. Explain the basic operational concepts of a computer.
18. Explain stack organization.
19. Write a note on DMA.
20. Write a note on Asynchronous Data Transfer.

PART – D
(Long Essay)

Answer **any 2** questions.

(2×5=10)

21. Explain any five memory reference instructions.
 22. Explain the general register organization of a CPU.
 23. Explain the various instruction formats with suitable examples.
 24. Explain the memory hierarchy.
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