



**K25U 0128**

**Reg. No. : .....**

**Name : .....**

**Sixth Semester B.Sc. Degree (C.B.C.S.S. – OBE-Regular/Supplementary/  
Improvement) Examination, April 2025  
(2019 to 2022 Admissions)**

**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 a computer system.
2. What are the functional units of a computer ?
3. What is reverse polish notation ?
4. What is control memory ?
5. What is asynchronous data transfer ?
6. Define Direct Memory Access (DMA).

**PART – B  
(Short Essay)**

**Answer any 6 questions.**

**(6×2=12)**

7. Explain the concept of floating-point representation.
8. What is an interrupt ?
9. Differentiate between register transfer and memory transfer.
10. What are micro operations ?

**P.T.O.**



11. Differentiate between register stack and memory stack.
12. Explain the general register organization.
13. Explain priority interrupt with an example.
14. Explain the importance of cache memory.

**PART – C**  
**(Essay)**

Answer **any four** questions.

**(4×3=12)**

15. Describe the main types of computers.
16. Describe the process of fetch and decode in instruction cycles.
17. Explain the bus and memory transfer process.
18. Write short notes on addressing modes.
19. Describe the hierarchy of memory organization.
20. Write short notes on asynchronous data transfer.

**PART – D**  
**(Long Essay)**

Answer **any two** questions.

**(2×5=10)**

21. Describe multiprocessors and multi-computers in detail.
  22. Write in detail about memory reference and register reference instructions.
  23. Discuss the significance of addressing modes and their types.
  24. Describe the role and functionality of an input-output processor in a computer system.
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