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VI Semester B.Sc. Degree (CBCSS-Reg/Supple./Improv.) Examination, April 2021 (2014 - 2018 Admissions) CORE COURSE IN COMPUTER SCIENCE 6BI 5CSC: Computer Organization

Time: 3 Hours Max. Marks: 40

	SECTION - A							
1.	One word answer. (8×0.	5=4)						
	and the way they are connected together to form the computer system.							
	The operations on data stored in register are called							
	 c) An is a group of bits that instruct the computer to perform a specific operation. 							
	The to be the address of the operand in a computation type instruction or the target address in a branch-type instruction.	l						
	The holds the address of the next instruction to be read from memory after the current instruction is executed.	Ü						
	An is a program that accepts a symbolic language program and produces its binary machine language equivalent.	É						
	A sequence of microinstructions constitutes a							
	The places the operator after the operands.							
	SECTION - B							
Wr	e short notes on any seven of the following questions. (7x2	=14)						
2.	Define a digital computer.							
3.	Vhat is an instruction code ?							
4.	Define addressing modes.							
5.	Vhich are the different types of CPU organizations?							
6.	Vhich are the different stack operations?							
7.	Define direct addressing.							

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K21U 0100



- 8. When is the floating point number said to be normalized?
- 9. Which are the different types of signed number representations?
- 10. Define recursive subroutine.
- Expand RISC.
- 12. Give the execution of register reference instruction.
- 13. What is write through method?
- 14. Define bootstrap loader.
- 15. What is an auxiliary memory?

SECTION - C

Answer any four of the following questions.

 $(4 \times 3 = 12)$

- 16. Explain the stack organization.
- 17. Explain the basic operational concepts of computer.
- 18. Which are the different types of interrupts?
- 19. Describe about the basic computer registers.
- 20. Explain the instruction format.
- Differentiate between hardwired control and microprogrammed control.
- 22. Give the memory hierarchy diagram.
- 23. Give the block diagram of RAM chip.

SECTION - D

Write an essay on **any two** of the following questions.

 $(2 \times 5 = 10)$

- 24. Explain RPN and also describe how arithmetic expression is evaluated.
- 25. Explain the general register organization with diagram.
- 26. Write about different addressing modes.
- 27. Explain instruction cycle with flowchart.
- 28. Explain different types of instructions.
- 29. Define cache memory and explain the mapping techniques.