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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
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-im	9 : 3	3 Hours Max.	Marks: 40
		SECTION – A	
1.	0	One word answer.	(8×0.5=4)
	a)	is concerned with the way the hardware components of and the way they are connected together to form the computer sys	•
	b)	The operations on data stored in register are called	
	C)	An is a group of bits that instruct the computer to per specific operation.	form a
	d)	The to be the address of the operand in a computation instruction or the target address in a branch-type instruction.	on type
	e)	The holds the address of the next instruction to be reamemory after the current instruction is executed.	id from
	f)	An is a program that accepts a symbolic language p and produces its binary machine language equivalent.	rogram
	g)	A sequence of microinstructions constitutes a	
	h)	The places the operator after the operands.	
		SECTION - B	
Wr	ite	short notes on any seven of the following questions.	(7×2=14)
2.	D	efine a digital computer.	
3.	W	Vhat is an instruction code ?	•
4.	D	Define addressing modes.	
5.	W	Which are the different types of CPU organizations?	
6.	W	Which are the different stack operations?	
7.	De	Pefine direct addressing.	

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- 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.
- 11. 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.
- 21. Differentiate between hardwired control and microprogrammed control.
- 22. Give the memory hierarchy diagram.
- 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.