	K2	22U 0100
Reg. No	o. :	6
Name :		·
VI Semo	ester B.Sc. Degree (CBCSS – Supple./Improv.) Examination (2016 – 2018 Admissions) CORE COURSE IN COMPUTER SCIENCE 6B15CSC : Computer Organization	n, April 2022
Time : 3	Hours Ma	ax. Marks : 40
	SECTION – A	
1. One	word answer.	(8×0.5=4)
a) E	Expand VLSI.	
b) C	Control function is boolean variable that is equal to 1 or 0 (true/fal	lse).
	nstruction which transfers the memory word specified by the address to AC.	effective
	The computer can be interrupted when IEN is set to (with the instruction).	ION
e) T	he register that holds address of the stack is called	
	Vhich code is suitable for detecting burst errors occurring in the commendation of the comment o	nunication
	Vhich algorithm allocates a fixed-length time slice of bus time that equentially to each processor, in round-robin fashion?	is offered
	The number of bits in the field is equal to the number of bits required to access the cache memory.	f address
	SECTION - B	
Write sh	hort notes on any seven of the following questions.	(7×2=14)

- 2. What is the use of instruction register?
- 3. What are micro operations?
- 4. What is effective address?
- 5. What is control memory?
- 6. What is the main advantage of micro-programmed control?

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- 7. What is zero address instruction?
- 8. What is handshaking?
- 9. What is hit ratio?
- 10. What is rotating daisy-chain procedure?
- 11. Write down the initial sequence of each interrupt Service Routine.

SECTION - C

Write short notes on any four of the following questions.

 $(4 \times 3 = 12)$

- 12. Explain decimal fixed point representation.
- 13. What are three state bus buffers? Discuss the three states.
- 14. Discuss the execution of BSA instruction.
- 15. Explain the sequence of microinstructions performed for implementing PUSH and POP operation.
- 16. Describe how I/O bus is connected to input and output devices.
- 17. What is strobe control? Explain its working with the help of proper diagrams.

SECTION - D

Write short notes on **any two** of the following questions.

 $(2 \times 5 = 10)$

- 18. Discuss fetch and decode phases of instruction cycle with diagram.
- 19. Explain evaluation of arithmetic expression using an example.
- 20. Discuss the hardware organization of associative memory.
- 21. Demonstrate the chip interconnection of RAM and ROM.