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	sagunas y ta	Confident projection (A.
	ester B.Sc. Degree (CBCSS-Reg./Supple./Improv.) Exam (2014 Admission Onwards) CORE COURSE IN COMPUTER SCIENCI 6B15CSC : Computer Organization	
Time: 3		Max. Marks: 40
Time . 3	SECTION - A	7
1. O n	ne word answer :	(8×0.5=4)
	MAR holds the address of the location to be accessed (T	rue/False).
b)	Stores the content of AC into the memory word speci	fied by effective
c)	RISC stands for	
d)	Who showed that arithmetic expression can be repre-	
e)	How many non-printing characters ASCII represents?	G Sough Folia Guine
f)	A transmission can send and receive data is simultaneously.	II Dotti directions
g)	The performance of cache memory is frequently measurquantity called	
h)	Which algorithm allocates a fixed-length time slice of offered sequentially to each processor, in round-robin fa	bus time that is shion?
	SECTION - D	
Write	short notes on any seven of the following questions:	(7×2=14)
2. W	Vhat is memory access time?	
	Vhat is instruction code?	
4. V	Vhat is the purpose of BUN instruction?	portor and Total
5. V	Vhat is control word?	
6 V	Which are four types of commands that an interface may re	eceive ?

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- 7. What is baud rate?
- 8. What are priority interrupts?
- 9. Draw the truth table of the priority encoder.

Inputs		SOURIOR ASTURM Outputs any objection						
l _o	I.	I,	Toldig map 10	X	У	IST	Boolean functions	
1	X	X	X	0	0	1		
0	1	Х	X	0	1	1	$x = l'_0 l'_1$	
0	0	1	X	1	0	1	$y = I_0'I_1 + I_0'I_2'$	
0	0	0	1	1	1	1	$(IST) = I_0 + I_1 + I_2 + I_3$	
0	0	0	0	X	X	0	marks to the First GASS As	

- 10. What is the disadvantage of direct mapping?
- 11. What is the advantage of multiport memory?

SECTION - Clarenting land bework

Write short notes on any four of the following questions:

 $(4 \times 3 = 12)$

- 12. Which are the three ways by which signed integer numbers can be represented?

 Represent -14 with 8 bits in all these ways.
- 13. Discuss memory read and write operations.
- 14. Explain the execution of register reference instruction.
- 15. Demonstrate interrupt cycle before and after interrupt.
- 16. Discuss the organization of a micro-programmed control unit.
- 17. What are replacement algorithms? Give examples.

SECTION - D

Write short notes on any two of the following questions:

 $(2 \times 5 = 10)$

- 18. Explain stored program organization in detail.
- 19. Discuss mapping of instructions in micro-programmed control.
- 20. Discuss DMA transfer operation with the help of a block diagram.
- 21. Explain direct mapping of cache memory.