

VI Semester B.Sc. Degree (CCSS – Reg./Supple./Improv.) Examination, May 2015 CORE COURSE IN COMPUTER SCIENCE 6B15 CSC : Computer Organization

Time: 3 Hours

Max. Weightage: 21

12 What is an instruction ?

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c) RST 6.5

(Answer all questions. Weightage for a Bunch of 4 questions is 1.)

- 1. A gray code is
 - a) a binary weight code
 - b) arithmetic code
 - c) code which exhibits a single bit change between two successive code
 - d) alphanumeric code
- 2. The instruction fetch phase ends with
 - a) placing the data from the address in MAR into MDR
 - b) placing the address of data into MAR
 - c) completing the execution of data and placing its storage address into MAR
 - d) Decoding the data in MDR and placing it in IR and places and pl
- 3. Floating point representation is used to store
 - a) Boolean values b) Whole numbers
 - c) Real integers d) Integers
- 4. Computers use addressing mode techniques for ______
 - a) giving programming versatility to the user by providing facilities as pointers to memory counters for loop control
 - b) to reduce no. of bits in the field of instruction
 - c) specifying rules for modifying or interpreting address field of the instruction
 - d) all the above

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5.	In a program using subroutine call instruction, it is necessary.					
	a) initialise program	b) clear the accumulator				
	c) reset the microprocessor		d) clear the instruction register			
6.			frequently measured in terms of a quantity			
	a) Miss ratioc) Latency ratio	· ·	'	it ratio ead ratio		
7.	Which of the following interrupt is non maskable ?					
	a) INTR	b) RST 7.5		ST 6.5	d) TRAP	
8.	8. What characteristics of RAM memory makes it not suitable for permanent storage					
	a) Too slow	b) unreliable		is volatile	d) too bulky	
					beeldelew then (2×1	1=2)
eboo evideeoous owner SECTION – Build elonia e sticlinke rioldwieboo. (o						
di alpiranumerio code						
(Answer any five questions. Weightage 1 for each.)						
9.	9. What are the uses of interrupts ? The RAM mean best of most step entropies (
10.). What do you mean by DMA channel ?					
11.	11. What are the characteristics of RAM and ROM ? A ROM must be an enboored (b					
12.	2. What is an instruction ?				ating point represer Boolean values	
13.	3. Explain micro instruction. enopoint (b enopoint loo					():
	14. List out the advantages of RISC.					
15 Distinguish between Static RAM and Dynamic RAM applied and applications applied						
16.	What is content add	dressable memory	instruct ? nterpret	in the field of modifying or i	(5×) (5×)	1=5)
					all the above	
				• ·		

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SECTION-C

-3-

(Answer any five questions. Weightage 2 for each.)

- 17. Represent the given binary number in a single precision floating point number 01011010010001.
- 18. Explain relative addressing mode.
- 19. What is direct mapping?
- 20. List the differences between a subroutine call and an interrupt.
- 21. State advantages of memory mapped I/O over I/O maped I/O.
- 22. What are advantages you got with virtual memory ?
- 23. Give notes on Daisy chaining priority.
- 24. Differentiate between synchronous and asynchronous data transfer method. (5×2=10)

SECTION-D

(Answer any one question. Weightage 4 for each.)

25. What is ROM ? Discuss the different ways in which ROM can be programmed.
26. Explain about different types of data representation. (1×4=4)

spectiving rules for modifying or interpreting address field of the instruction