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lits w	21	090 (Pa		g. No	
			Na	me	
! mark	B.TECH. DEGREE EXAMINATION, MAY 2010 Fourth Semester				
mark		Branch: Computer	Science and Engineering		
		COMPUTER ORGANIZATION (R)			
mark		[2008 admissions—Regular/2007 admissions—Improvement/Supplementary]			
m		Three Hours	7	Maximum: 100 Marks	
nark	me:		art A		
lar ¹ -1			questions briefly. n carries 4 marks.		
U	1.	Compare single bus and 2 bus CPU organ	ization.		
ırks	2. 3.	Describe the different types of interconnect What is CLA?	tion structures in a processo	or.	
rks) rks]	4.	Describe the working of an array multiplie	er.	•	
	5.	What is the need for a control unit?			
	6.	6. Differentiate between Micro and Macro instructions.			
	7.				
all received and a second	8.	8. Differentiate between Semiconductors RAM and ROM memories with respect to their characteristics, design, cost and performance.			
	9.	Write short notes on different types of disp	olays.		
Methods polyelas	10.	What is the need for an I/O interface?			
24/1000200000000000000000000000000000000				$(10 \times 4 = 40 \text{ marks})$	
-		F	art B		
			or (b) of each module. on carries 12 marks.		
		M	odule 1	X =	
	11.	(a) Explain in detail the different steps re	equired for the execution of	an instruction.	
			Or	4	
		(b) Describe the layered view of a comput	er system.		
		M	odule 2		
	12.	(a) Describe Booth's algorithm with an ex	cample.		
			Or		
TANDE BUILDE		(b) Describe the different steps required in	for ALU design.		
Medical front man	87				

Turn over

Module 3

13. (a) Briefly describe the implementation of a microprogram control unit.

Or

(b) Describe the different steps involved in control logic design.

Module 4

14. (a) Describe the needs and uses of having different types of memories.

Or

(b) Write down the characteristics of different types of memories that you are familiar with.

ne : Three

Module 5

15. (a) Explain in detail the different types of I/O standard interface.

01

(b) Describe the different types of input devices that you are familiar with.

 $(5 \times 12 = 60 \text{ marks})$ 1. Expl

- 2. Expl
- 3. Why
- 4. How
- 5. Drav
- 6. Shov
- 7. Brie
- 8. Expl
- 9.
- .0. How

11. (a)

(b)