Code No.: CS8202PC

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

I-M.TECH-II-Semester End Examinations (Supply) - March- 2023 ADVANCED COMPUTER ARCHITECTURE

(CSE)

	me: 3 Hours] [Max. Marks: 6	0]
NOTE	inis question paper contains two parts A and B.	
	Part A is compulsory which carries 20 marks. Answer all questions in Part A.	
	Part B consists of 5 Units. Answer any one full question from each unit Fach quest	ion
	carries 10 marks and may have a, b, c as sub questions.	
1 -	$\underline{PART-A} $ (20)	Marks)
1. a)	what are the important factors to be considered when scheduling the program?	[2M]
b)	Differentiate multicomputer and multiprocessor.	[2M]
c)		[2M]
d)	and content of computer systems:	[2M]
e)	by pes of ouckplane ous systems:	[2M]
f)		[2M]
g)		[2M]
h)	James of this generation multicombilers	[2M]
i)	i ditta novi dicintectures:	[2M]
j)	Give examples of hybrid architectures.	[2M]
2	$\frac{PART-B}{}$	Marks)
2.	What is parallelism in computer architecture? What are the conditions of parallelism?	[10M]
2	OR	
3.	What is the VLSI model and explain its key features?	[10M]
1	II-market in the second	
4.	How would you evaluate the performance of a parallel processing system for a	[10M]
	particular application, and what metrics would you use?	
5	OR	
5.	Explain the difference between RAM and cache memory, and how they are used in	[10M]
	modern computer systems.	
6	Fundamental Company	
6.	Explain the operation of associative cache memories.	[10M]
7	OR What are the 1	
7.	What are the key components of an arithmetic pipeline, and how do they work	[10M]
	together?	
Q	List and avalage disc	
0.	List and explain different interconnection structures used in multiprocessors.	[10M]
9.	OR Explain about SIMD assessed	
٦.	Explain about SIMD computer organization and message passing mechanism.	[10M]
10.	Compare and contract different towards	
10.	Compare and contrast different types of scalable architectures.	[10M]
11.	What is multithreading? Explain the principles of multithreading?	
	What is multithreading? Explain the principles of multithreading. List out the key features of fine grain multi computing?	[5M]
	was and key reatures of thie grain muni computing?	[5M]