Total No. of Page: 2	
	Roll No
MID SEMEST Course Code: COCSC18, CACSC20 Course Title: High Performance Co Time: 1.5 Hours	ER EXAMINATION — FEB ~ MAR 2022 B. TECH. ~ 6 th Sem) mputing
Hours	
mentioned in the answer All questions.	Max. Marks: 15 Missing data / information if any, may be suitably assumed &

ON			
Q. No.	Question	Marks	со
la	Explain Flynn's classification of parallel architecture with diagram.	2	1
1b	Define granularity.	1	2
2a	State any four application areas of parallel computing.	2	3
2b	Explain recursive decomposition with an example.	1	2
Q3	S1: Load R1, 1024		2
3a	Draw the dependency graph to show all the dependencies.		
3b	Are there any resource dependencies if only one copy of each functional unit is available in CPU?		1
	MPI.		2
4a	Explain MPI_Send() primitive in message passing using MPI.		 1
4b	Explain PRAM models in brief		

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B.Tech.	(CSE),	Sem.	<u>06</u>
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Roll No.

MID SEMESTER EXAMINATION February-2022

Course Code: COCSC20

Time: 1:30 Hours

Course Title: Internet of Things

Max Marks: 25

Note: Attempt all questions.

Assume suitable missing data if any.

No.	Question(s)		11	1
1 (a)	Explain the format of HTTP request and response line with an example .	CO	Mar 2	rks
1 (b)	What is Axiom 0 by Tim Berners-Lee, director W3C? What are the key considerations for IoT architecture?			
2 (a) 2 (b) 3 (a)	Explain the following abbreviations: a) URI b) JSON c) NFC d) MANET e) Name one of ADC approach Explain the uses/applicability of cloud, fog, and edge computing in terms of an IoT application.			5
	Active Tag Passive Tag			
3 (b)	Explain the usecase of RFID technology at Airport. What could be the prand cons using RFID.	os 5	3	2
4 (a)	Write and explain an algorithm of DSR protocol with an example (routing process over a network).			
(b)	Explain the most suitable architecture for IoT networks in a diagrammatical representation.			3
(a)	Match the following: Layer(s) Link Layer Application Layer Application Layer Internet Layer Transport Layer Layer Protocol UDP 6LoWPAN 6LoWPAN COAP HTTP HTTP		,3	3
	What are pin configurations of the ultrasonic sensor? What are the enablers for the IoT Technology, explain with example?		1	2