

CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

	(UGC AUTONOMOUS)	
	M. Tech II Semester Regular Examinations September-2023	
	Course Name: ADVANCED ALGORITHMS	
	Date: 04.09.2023 FN (Computer Science & Engineering) Time: 3 hours Max.Mar	lzg. 60
	(Note: Assume suitable data if necessary)	KS: 00
	PART-A	
	Answer all TEN questions (Compulsory) Each question carries ONE mark. 10x1=	407-
		=10M
1.	What is time complexity?	1 M
2.	How does selection sort work?	1 M
3.	What is the use of MST?	1 M
4.	Which is the best greedy algorithm?	1 M
5.	What is the time complexity of Ford Fulkerson algorithm?	1 M
6.	What is divide and conquer Method?	1 M
7.	Expand LUP.	1 M
8.	What is FFT?	1 M
9.	Define NP Hardness.	1 M
10.	List out recent trends in problem solving paradigm.	1 M
	PART-B	
	Answer the following Feel guestion and TENAN	=50M
		20111
11.A	Describe a state space with 5 states, where the number of nodes visited by iterative deepening search (including the start node) is 15.	10M
	OR	
11. E		10) (
	, and to 2101 Enplain in detail.	10M
12. A	A). Discuss on Minimum Spanning Tree Algorithm.	10M
	OR	
12. B	3). Brief note on Edmond's Blossom's algorithm to compute augmenting path.	10M
13. A	A). What is maxflow min cut theorem. Explain.	10M
10.5	OR	
13. B	6). Give detailed description on relation between the time complexities of basic matrix operation.	10M
14. A	a). Discuss on Floyd Warshall algorithm on dynamic programming.	103.6
	OR	10M
14. B		1014
15 A		10M
15. A	Explain.	10M
15. B	OR	
10. 0). Explain in detail the recent problem solving algorithms using data structure.	10M

H.T No: **R22** Course Code: B458305



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS) M.Tech II Semester Regular Examinations September-2023

C	Course Name: ADVA	NCED COMPUTER ARCHITECTURE	
D	ate: 06.09.2023 FN	(Computer Science & Engineering) Time: 3 hours	Max.Marks: 60
_		(Note: Assume suitable data if necessary) PART-A	Wida:Walks. 00
		Answer all TEN questions (Compulsory)	
		Each question carries ONE mark.	10x1=10M
1.	What is SIMD?		1 N
2. 1	Explain PRAM Model b	riefly.	1 N
3.	What are the different ha	ardware technologies?	1 N
4. 1	Explain Virtual memory	•	1 N
5. (Compare RISC and CIS	C.	1 N
6.	What is Shared Memory	in computer architecture?	1 N
7. I	Explain Cache Coherence	ee.	1 N
8.	What is Synchronization	?	1 N
9. 1	Describe vector access n	nemory schemes.	1 N
10.	What is Compound Vec	tor Processing?	1 N
		PART-B	
A	inswer the following. E	ach question carries TEN Marks.	5x10=50M
11.A).	. i) Explain the Multip	processors and Multi computers.	51
	ii) Discuss the Multi	vector and SIMD Computers	51
		OR	
11. B)	. i) Discuss Program a	nd network properties of computer architecture.	5
	ii) Explain Condition	s of parallelism.	5)
12. A)	. How to compare the	performance of computers? Give illustration.	101
		OR	
12. B)	. Describe the process	es and Memory Hierarchy.	101
13. A)	. Explain differences t	between Linear and Non-Linear Pipeline Processors.	101
		OR	
13. B)	. Illustrate the Instruct	ion and Arithmetic Pipeline design.	101
14. A)	. Write about:		
	i) Three generations	of Multi computers.	51
	ii) Message-passing	Mechanisms.	51
		OR	
14. B)	. Discuss the challenge	es of parallel processing in multi processors.	101
15. A)	. Explain vector proce	ssing principles.	101
-)	p. 300	OR	101
15. B)	. Explain SIMD Comp		101
,		****	101



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

		th II Semester Regular Examinations September-2023 NCED COMPUTER NETWORKS	
	Course Name. ADVA	(Computer Science & Engineering)	
	Date: 08.09.2023 FN		ax.Marks: 60
		(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries ONE mark.	10x1=10M
1.	Write about wireless mes	h networks	1 M
2.	Define Unicast Routing.	ii lictworks.	1 M
3.	What is TCP?		1 M
4.	Write about Transport lay	ver responsibilities	1 M
5.	Write about HTTP.	er responsionates.	
6.	What is P2P file sharing?		1 M
7.	List out main types of win		1 M
8.	Define GPRS.	reless lietworks.	1 M
9.	What is VOIP?		1 M
10		eo applications?	1 M
	what is streaming in vide	o applications:	1 M
	Answer the following. Ea	PART-B ach question carries TEN Marks.	5x10=50M
11	A). Explain in detail abou	4 IEEE 902 11	
11	A). Explain in detail abou	at IEEE 802.11 wireless standard.	10M
11	P) Disauss about routing	OR	
11.	B). Discuss about routing	protocols in network layer.	10M
12.	A). Demonstrate in detail	about transport layer protocols.	10M
		OR	
12.	B). Explain about congest	tion control policy in TCP.	10M
12	A) F1-1	. 73.10	
13.	A). Elaborate in detail abo		10M
12	D) Famile's and of	OR	
13.	B). Explain socket progra	mming in TCP.	10M
14.	A). Outline about CDMA	and Explain about Forward and Reverse channels in CDMA. OR	10M
14.	B). Discuss in detail abou	t principles of Mobility Management.	10M
	,	ramingoment.	TUIVI
15.	A). List out multimedia ne	etworking applications.	10M
		OR	
15.	B). Discuss about the prot	cocols for real-time conversational applications.	10M



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

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M.Tech II Semester Regular Examinations September-2023
Course Name: ROBOTIC PROCESS AUTOMATION

	(Computer Science & Engineering) Date: 11.09.2023 FN Time: 3 hours	Max.Marks: 60
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory)	
	Each question carries ONE mark.	10x1=10M
1.	What are the three capabilities of RPA?	1 M
2.	What are the features of RPA?	1 M
3.	What is the use of Insights?	1 M
4.	What is Web control Room?	1 M
5.	What are the different types of audit logs?	1 M
6.	What is SLA in RPA?	1 M
7.	List the different types of Recorder.	1 M
8.	Name the Database Commands in RPA.	1 M
9.	What are the terminal emulator commands?	1 M
10.	What is the role of the report designer?	1 M
	PART-B	
	Answer the following. Each question carries TEN Marks.	5x10=50M
11.A). Explain in detail Automation Anywhere Enterprise Platform.	10M
	OR	
11. B	3). What are the ways to create Bot? Discuss in detail.	10M
12. A	a). Discuss in detail Features Panel.	10M
	OR	
12. B). Explain in detail Dashboard.	10M
13. A	a). Briefly explain Devices in RPA with example.	10M
	OR	1011
13. B		10M
14. A	a). Illustrate various String operation Commands.	10M
	OR	
4. B). Discuss in detail about Web Recorders and Screen Recorders.	10M
15. A). Explain in detail FTP Commands.	10M
	OR	10111
15. B		10M