**Code No: R17A0527** 

### MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

### IV B.Tech I Semester Supplementary Examinations, April 2024 Cloud Computing

(CSE)												
Roll No												

Time: 3 hours Max. Marks: 70

**Note:** This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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		SECTION-I	
1	$\boldsymbol{A}$	Write short notes on origins of cloud computing	[5M]
	В	With respect to cloud computing, list and explain the distribution system models.	[9M]
		OR	
2	$\boldsymbol{A}$	Differentiate between cluster computing and cloud computing	[ <b>7M</b> ]
	$\boldsymbol{B}$	Compare Distributed Computing with Parallel Computing.	[7M]
		SECTION-II	
3	$\boldsymbol{A}$	Explain virtualization security management	[5M]
	$\boldsymbol{B}$	Explain the CPU, Memory and I/O virtualizations	[9M]
		OR	
4	$\boldsymbol{A}$	What are the different levels of Virtualization implementation	[ <b>7M</b> ]
	В	Discuss the Virtualization for Data-Center Automation	[ <b>7M</b> ]
		SECTION-III	
5	$\boldsymbol{A}$	What are the Broad Approaches to Migrate into the Cloud? Explain	[ <b>7M</b> ]
	$\boldsymbol{B}$	Explain the various cloud deployment models (e.g., public, private, hybrid)	[7M]
		and their use cases in enterprise settings.	
		OR	
6	$\boldsymbol{A}$	Discuss the benefits and challenges associated with migrating an	[9M]
		organization's IT infrastructure to the cloud.	
	$\boldsymbol{B}$	What is the "Enterprise Cloud Computing Paradigm," and how does it differ	[5M]
		from individual or small-scale cloud adoption?	
		SECTION-IV	
7	$\boldsymbol{A}$	Discuss about examples of IaaS providers and range of services they offer.	[ <b>7M</b> ]
	$\boldsymbol{B}$	Explain about virtual machine provisioning and Migration services	[ <b>7M</b> ]
		OR	
8	$\boldsymbol{A}$	Explain the importance of Aneka cloud.	[ <b>7M</b> ]
	$\boldsymbol{B}$	How can organizations address Integration of Private and Public Cloud	[ <b>7M</b> ]
		challenges?	
		SECTION-V	
9	$\boldsymbol{A}$	Explain the Evolution of SaaS.	[ <b>7M</b> ]
	$\boldsymbol{B}$	Explain the importance of identity management in cloud computing	[ <b>7M</b> ]
		OR	

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### MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

# IV B.Tech I Semester Supplementary Examinations, April 2024 LINUX Programming

(CSE)												
Roll No												

Time: 3 hours Max. Marks: 70

**Note:** This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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4	4	SECTION-I	FON #1
1	A	Explain in detail about Text Processing Utilities and Backup Utilities.	[8M]
	$\boldsymbol{B}$	Explain in detail about shell meta characters	[6M]
•		OR	F#3 #3
2	A	Write a detailed note on Shell Responsibilities with examples	[7M]
	$\boldsymbol{B}$	Write about shell variables in Unix shell syntax using Sed.	[ <b>7M</b> ]
_		SECTION-II	
3	$\boldsymbol{A}$	Explore the Creating, removing and changing and current working	[ <b>8M</b> ]
		commands with examples.	
	$\boldsymbol{B}$	Differentiate soft link and hard link with examples.	[6M]
		OR	
4	$\boldsymbol{A}$	Describe Unix file system advantages and also state different commands	[10M]
		used in System calls for I/O operations.	
	$\boldsymbol{B}$	Explain the kernel support for file system	[ <b>4M</b> ]
		SECTION-III	
5	$\boldsymbol{A}$	What is the need of exec() system call? Write a C program to illustrate	[ <b>8M</b> ]
		exec() function	
	$\boldsymbol{B}$	Write a detailed note on Signal functions	[6M]
		OR	
6	$\boldsymbol{A}$	Differentiate between fork() and vfork().	[5M]
	$\boldsymbol{B}$	Explain in detail about Kernel support for process Creation Mechanism	[ <b>9M</b> ]
		SECTION-IV	
7	$\boldsymbol{A}$	Explain about named and unnamed pipe library functions with examples	[ <b>7M</b> ]
	$\boldsymbol{B}$	Discuss about Kernel support for Message Queues	[ <b>7M</b> ]
		OR	
8	$\boldsymbol{A}$	List some APIs used for message queues and construct a sample code for	[9M]
		Client –Server application using messages.	
	$\boldsymbol{B}$	Write short notes on File locking with semaphores	[5M]
		SECTION-V	
9	$\boldsymbol{A}$	Explain how to attach and detach a shared-memory segment.	[ <b>7M</b> ]
	$\boldsymbol{B}$	Write a C Socket Program for Linux with a Server and Client Example Code.	[7M]
		OR	
10	$\boldsymbol{A}$	Explain with a program how to copy file data from server to client using	[ <b>7M</b> ]
		shared memory	
	В	Explain briefly about the socket APIs with clear syntax:	[ <b>7M</b> ]
		***	

Code No: **R17A1204** 

Roll No

### MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

## IV B.Tech I Semester Supplementary Examinations, April 2024 Artificial Intelligence

(CSE)

	This	questio	n paper Consist SECTION and		uestion				_	ıesti	ons,	Cho	Max. Maosing ONI	
					SE	CTIO	N_T							
1	SECTION-I  A Discuss the characteristics of AI problem. Can Towers of Hanoi problem be												[7M]	
_			sidered as AI pr		_							-		[,,,,_]
	В		in the Heuristic		-									[ <b>7M</b> ]
						OR								
2	A		nd explain the a							ce.				[ <b>7M</b> ]
	В	Give a	an overview of	differen					ams					[ <b>7M</b> ]
SECTION-II														
3	A		ibe about A* al											[7M]
	В	Expla	in in brief abou	t Forwa	rd Cha	ining OR	and I	Back	cward	d Ch	ainir	ıg A	lgorithms	[7M]
4	A	Repre	sent the followi	ng sent	ences u	ısing f	irst-c	ordei	r log	ic:				[ <b>7M</b> ]
		i)	One's mom is	one's f	emale	parent	t.							
		ii)	One's husband	is one'	s male	spous	e							
		ii)	Parent and ch	ild are i	nverse	relation	ons.							
			) A grand paren	-			pare	ent.						
	В	Expla	in Alpha-Beta I	Pruning	_									[ <b>7M</b> ]
						CTION								
5	A	Monotonic and Non-Monotonic Reasoning in Artificial Intelligence									[ <b>7M</b> ]			
	В	Expla	in the Causes of	funcert	ainty w	vith su OR	itable	e exa	ampl	e				[7M]
6	A	Expla	in the advantage	es of Re	presen	ting K	Cnow	ledg	ge in	an U	Jncei	rtain	Domain	[ <b>7M</b> ]
	В	Discus	ss the advantage	es and d	lisadva	ntages	s of E	Baye	sian	Net	work	S		[ <b>7M</b> ]
					SEC	CTION	N-IV							
7	A	The D	ECISION-TRE	EE-LEA	RNIN	G algo	rithn	n ado	opts	a gro	eedy	divi	de-and-	[ <b>7M</b> ]
		-	er strategy											
	В	Illustr	ate EXPLANA	TION-E	BASED		RNI	NG v	with	exai	mple	S.		[ <b>7M</b> ]
_						OR								
8	A		short notes on					_						[ <b>7M</b> ]
	В	Discus	ss about Winsto	on's Lea					ail					[ <b>7M</b> ]
						CTIO								
9	A		in the key comp			•								[7M]
	В	-	t system is built			nowled	ige t	base	mod	dule.	.—Jı	istif	y the	[ <b>7M</b> ]
		statem	nent with suitab	le exam	ples.	OB								
10		г .		1		OR								F#3 57
10	A	-	in about knowle	-	-		0	14						[7M]
	В	write	short notes on l	Develop	oment o	of Exp ***	ert S	yste	m					[ <b>7M</b> ]
						<b>かかか</b>								