	Reg. No.											
		0					~					
	B.Tech. DEGREE		MINATIO emester	ON,	MA	Y 20)23					
18E	CE351T – HIGH PERFORMANCE (For the candidates admitted fro									STE	M	
lote:												
(i)	Part - A should be answered in OMR			40 m	inute	es an	d OMI	₹ shee	t shou	ld be	han	ded
(ii)	over to hall invigilator at the end of 40° Part - B & Part - C should be answere			ot .				-		,		
(11)	Tart - D & Tart - C should be answere	ou ili alis	WCI DOOKI	Ci.								
ime: 3	hours								Max. l	Marl	ks: 1	.00
	$PART - A (20 \times 1)$	l=20 I	Marks)						Marks	BL	CO	PO
	Answer ALL	Questio	ons									
1.	allow the	of con	nputationa	al and	d oth	er I	reso	urces	1	1 .	1	1
	to make it universally accessible to	all.										
	(A) Grid, Coupling		SC, Bran									
	(C) HPC, SC	(D)	HPC, Co	oupli	ng							
		.1	.•	•			٠.		1	1	1	1
2.		the op	eration of	t sys	stem	s, se	curity	and	1	1	6 1	1
	accounting of system usage.	(D)	шом									
	(A) HOW	` /	HLOW									
	(C) WHO	(D)	HWO									
3	The GIIS the 2 nd 'I' Indicates								1	1	1	1
5.	(A) Index	(B)	Index fa	CA								
	(C) Information	(D)	Intercha									
	(C) Information	(2)	1111010111	50								
4.	Which package is responsible for u	nified i	emote pre	oced	ure (alls	?		_ 1	2	1	1
	(A) Stream		File									
	(C) RPC	(D)	Replica				*					
5.	Expand API								I	2	2	1
			Applica		_							
	(C) Application Pass Information	(D)	Applica	tion l	Prog	ram	Intert	ace				
6	Which are of the following is not o		vytaa af ai	1a	. : ah	door	annti a	ກາ	1	1	2	1
0.	Which one of the following is not a (A) Type		Name	mpie	Jou	uese	orpuo	111				
	(C) Access – ratio	` '	Databas	ρ.								
	(C) Recess Tatio	(D)	Damous	•								
7.	The speed of a typical CPU in the o	cluster i	is measure	ed in					1	1	2	1
	(A) mips		Kbps									
	(C) Mbps	. ,	mkps									
			•									
8.	n								1	1	2	1
	$\sum_{i}(d,i)=?$											
	e=1 (A) 1	(B)	0									
	(C) 0.5		1.5									
0000 1 - 5 2		(D)	1.0		•		19		24MF6-	1957	F2 E11	r
Page 1 of 3		•							≛~tiviF U~	TOEU.	الاللت	

9.	F(z)	$c(x) = \frac{n_x}{n}$ is called			1	2	3	2	
		Failure		Work offline					
	(C)	Least failure	(D)	MLE					
10.	TEPT	+ current Time =			1	2	3	2	
		Estimated Failure Time	(B)	Estimated Finish Time					
		Easy Failure Time	' '	Easy Finish Time					
11.		window help us to find the			1	1	3	2	
	` ′	Monitor	` /	Tasks					
	(C)	Dispatch	(D)	Job					
12.	Exp	and FIM			1	1	3	2	
	(A)	Field Ideal Management	(B)	Federated Idea Management					
	(C)	Field Identity Management	(D)	Federated Identity Management					
13.		lications perform nearest neighbo			ļ	1	4	2	
				VLIN					
	(C)	Hardward Architecture	(D)	DSP					
14.	help us to generate automatic custom instruction processes.						4	2	
		VLIN		FISH					
	. ,	ASIC	` '	ASP					
		•				1			
15.	Transformation a dimension to a new size in order to reduce cache-set conflicts.						4	2	
		FISH	(D)	CIMD					
	` '	Array Packing	` '	SIMD Loop Fitting					
	(0)	Allay I acking	(ப)	Loop Fitting					
16.			nodul	us to access system memory	, 1	1	4	2	
	_	pendently of the CPU	(D)	DAM					
	` .	SMID	` '	DAM					
	(C)	SIMD	(D)	DMA					
17.	Expa	and KBMF			1	1	5	2	
	(A)	Kernelized Bayesian Matrix	(B)	Kernel based matrix function					
		factorization							
	(C)	Kernelized Bay matrix function	(D)	Kernel Bay multiples factor	Đ				
18.	Supp	Support vector mechanism and regularized classification methods used for 1 1 5 2							
		prediction.							
	(A)	SVM	(B)	DTI					
9	(C)	RLS	(D)	QPCRs					
19	DIM	TES is a			1	1	5	2	
. , .		Algorithm	(B)	Application					
	• •	Web Server	(D)						
•	,		,						
20.		ch among the following is not a n			1	1	5	2	
		Drug – target interaction data							
2 of 3	(C) '	Target Similarities	(D)	Drug Number	24MF6-18	ያድረጉ የ	R51T		
					~7//II U^I	, E. C.E.	,511		

		$PART - B (5 \times 4 = 20 \text{ Marks})$	Marks	BL	со	DC.
	21.	Answer ANY FIVE Questions Explain in detail about application and resource information services.	4	2	1	PC
		Draw the flow chart of a moldable job allocation procedure in heterogeneous	4	2	2	1
		Grid.				
	23.	Define: Life Cycle of a Volunteer Peer.	4.	2	3	2
	24.	Discuss about customizable design and processors.	4	2	4	2
	25.	Explain in detail about neighborhood smoothing.	4	2	5	2
	26.	What are all the key components of Public - Private Grid Partnership?	4	2	1	1
	27.	Define: Execution site and Turnaround time.	4	2	2	i
		$PART - C (5 \times 12 = 60 Marks)$				
		Answer ALL Questions	Marks	BL	co	PO
1	28. a.	Explain in detail about the role of super computers in Grids.	12	2	1	1
		(OR)				
	b.	Discuss the following:		2	1	1
		i. Leverage of Market Power	4			
		ii. Sharing of Operational Cost	4			
		iii. Optimize system usage	4			
2	29. a.	Elaborate the steps in generating simple job description.	12	2	2	1
		(OR)				
	b.	Explain in detail about moldable job allocation in heterogeneous grid.	12	2	2	1
-	30. a.	Draw and explain the block diagram of managing data access at the home site with respect to security.	12	2	3	2
		(OR)				
	b.	Explain the following:		2	3	2
		i. Availability Predictionii. Failure Probability Estimation	6 6			
3	31. a.	Discuss about the following:		2	4	2
		i. Customizable Design and Processors	2			
		ii. Application specific Micro architecture	2			
		iii. Stencil computation	8			
	b.	(OR) How array padding, Loop tilling and bandwidth optimizations plays an	12	2	4	2
		important role in customizing a design.				
3	32. a.	Explain in detail about NRLMF.	12	2	5	2
	1.	(OR)	12	2	5	2
	b.	Explain in detail about Logistic Matrix Factorization.	12	2	5	2
		* * * *				

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