		AMINATION, MAY 2023 Semester				
		ON TO VIRTUAL COMPUTING e academic year 2018-2019 to 2021-2				
ote: (i) (ii)	Part - A should be answered in OMR she over to hall invigilator at the end of 40 th mi Part - B & Part - C should be answered in	nute.	neet shou	ld be	han	dec
me: 3	nours		Max.	Marl	ks: 1	.00
	$PART - A (20 \times 1 = 2)$	0 Marks)	Marks	BL	со	PC
	Answer ALL Que	,				
1.	In many applications, HPC and HTC sy	stems desire	1	1	1	1
	(A) Transparency (B) Selectivity				
	(C) Dependency (D) Adoptability				
2.	A consist of multiple autonor	nous computers, each having its ov	/n 1	2	1	1
	private memory, communicating through	h a computer network.				
	(A) Parallel (3) Centralized				
	(C) Distributed (D) Autonomous				
3.	converts bit serial proces	sing to word – level processing	1	1	1	5
	(A) Bit level parallelization (B) Instruction level parallelization	ì			
	(C) Job level parallelization (D) Data level parallelization				
4.	Grid system applies to		1	2	1	5
	(A) Dynamic resources (B) Elastic resources				
	(C) Static resources (D) Spare resources				
5.	The technology used to distribute service	e requests to resources is referred	to .1	1	2	5
	as					
		B) Load Balancing				
	(C) Load Scheduling	D) Load Distributing				
6.		basic blocks of dynamic source	ee 1	2	2	5
	instructions to target instructions					
	(A) Dual binary translation (
	(C) Static binary translation (1	D) Dynamic binary translation				
7.	Application – level virtualization is also	known as	1	1	2	5
	(A) Process – level virtualization (1)					
	(C) Instruction – level (I					
	virtualization					
8.	The the ring number, the	the privilege of instruction	n ¹	2	2	5
	bring executed					
	9	B) Lower, Higher				
) Higher, Higher				
	(c) Lower, Lower) inglici, inglici				

Reg. No.

9.	organization is built within the dom	ain o	i an intranet owned by an single	•	-	J	1
	(A) Public cloud	(R)	Private cloud				
	(C) Hybrid cloud	` '	Cluster cloud				
10.	The data centre is connected to the router and border routers.	interr	net at with many access	1	2	3	3
		(B)	Layer 1				
	(C) Layer 3	. ,	Layer 4				
11.	Which of the following is a type of c	loud	computing service?	1	1	3	1
	(A) Software-and-a-server						
	(C) Software-as-a-server	(D)	Software-as a-service				
12.	GAE is an for users			1	1	3	3
	(A) Application development platform	(B)	Infrastructure platform				
	(C) Virtual platform	(D)	Data platform				
13.	The REST interactions are			1	1	4	1
	(A) Stateless	(B)	State full				
	(C) Static	` /	Memory less				
14.	"" refers to both the standards themselves.	proc	esses to develop standards and the	1	2	4	5
	(A) Closed	(B)	Open				
	(C) Fetch	, ,	Delete				
15	Which of the following is a base inte	erface	of data management services?	1	2	4	1
15.			Data Facility				
	(C) Data Representation	(D)	Data Manipulation				
16	which specifies a set of	inter	faces outlining the communication	1	2	4	5
10.	semantics input / self and queuing sy						
	(A) Core Java	. /	Java message service				
	(C) AMQP	(D)	.net Framework				
17.	The basic storage concept in clouds	is	for amazon	1	1	5	1
	(A) S1	(B)	Blobs				
	(C) S3	(D)	S2				72
18.	is a major cloud in Google	e		1	1	5	1
	(A) Big Table		Simple DB				
	(C) Azure		VO Table				
19.	The Hadoop core is divided into		fundamental lavers	1	1	5	5
~~*	(A) Two		Three				
	(C) Four	` '	Five				
	(-) 1000	(2)					

20.	The function runs the same code written by users for the function as its functionality is identical to it. (A) Reduce, Map (B) Map, Reduce (C) Combiner, Reduce (D) Reduce, Combiner	1	2	5	5
	$PART - B (5 \times 4 = 20 Marks)$				
21.	Answer ANY FIVE Questions Compare Grid versus Clouds.	Marks 4	BL 3	1	PO
	State the disadvantages of OS extensions.	4	1	2	5
		4			
23.	What are the basic requirements for managing the resources of a data centre?		1	3	3
24.	Categorize the broad areas of OGSA services.		3	4	1
25.	Name some infrastructure cloud features.		1	5	1
26.	Discuss the various parallel scheduling policies introduced by time sharing.	4	2	1	5
27.	What is public cloud – Give example?	4	1	3	3
28. a.	PART – C ($5 \times 12 = 60$ Marks) Answer ALL Questions Discuss the various design objectives of computer cluster.	Marks 12	BL 2	co 1	PO 1
b.	(OR) Elaborate on software environments for distributed systems and clouds.	12	2	1	5
29. a.	Illustrate two level memory mapping procedure with memory virtualization.	12	3	2	5
	(OR)				
b.	Write a detailed note on levels of virtualization implementation.	12	3	2	5
30. a.	Discuss about IaaS, PaaS and SaaS service models.	12	2	3	1
b.	(OR) Describe the functions of Generic cloud architecture.	12	2	3	3
31. a.	Explain the various Grid services and OGSA architecture.	12	2	4	1
b.	(OR) Write a short note on UDDI and service registers with a neat diagram of UDDI entities and their relationship.	12	2	4	1
32. a.	Describe the various platform features supported by clouds and sometimes grids.	12	2	5	1
b.	(OR) Draw the features of Azure cloud platform and elaborate on Microsoft Azure programming support.	12	2	5	1

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