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B.Tech DEGREE EXAMINATION, NOVEMBER 2023

Seventh Semester

18CSE441T - CLOUD APPLICATION DEVELOPMENT

(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

Note:

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i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
 ii. Part - B and Part - C should be answered in answer booklet.

ii. Pa	art - B and Part - C should be answered in answer booklet.			
Time	e: 3 Hours	Max.	Marks	s: 100
	PART - A (20 × 1 = 20 Marks) Answer all Questions	Ma	rks BL	CO
1.	Which three types of cloud computing services are the most common? (A) Infrastructure as a Service, Platform as a Service, and Software as a Service, and Software as a Service (B) Infrastructure as a Service, Program as a Service, and Software as a Service (C) Infrastructure as a Service, Platform as a Program, and Software as a Service Solution		2	1
2.	What are the advantages of cloud computing? (A) Increased security and data privacy (B) Better performance and faster processing (C) Cost savings and scalability (D) More control over hardware and software resources	1	1	1
3.	What distinguishes public from private cloud computing? (A) Public cloud computing is more secure than private cloud computing accessible to a single organization while public cloud computing is available to anyone	1	2	1
	(C) Public cloud computing is more expensive than private cloud computing is more scalable than public cloud computing			
4.	What is serverless computing's key advantage? (A) Cost savings (B) Increased scalability (C) Improved security (D) Faster processing	1	2	1
5.	ZooKeeper's architecture supports high through redundant services (A) flexibility (B) scalability (C) availability (D) interactivity	s. 1	4	2
6.	Identify the messaging pattern in which the senders of the message are programmed to send their messages to specific receivers. (A) Remote Procedure call (B) Remote method invocation (C) Request/Response (D) Publish/Subscribe	not 1	4	2
7.	Which of the following is not a major cloud computing platform? (A) Microsoft Azure (B) Amazon EC2 (C) IBM Deep Blue (D) Google 101	1	2	2
8.	The load balancer is more advanced. (A) workload managers (B) rackserve managers (C) workspace managers (D) workload and workspace manager	1 ers	2	2

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9.	What are the drawbacks of cloud computing (A) Excellent accessibility (C) Unlimited storage capacity	ng? (B) Limited Control (D) Low maintenance cost	1	2	3
10	. There is a type 1 hypervisor, which is (A) KVM (C) LynxSecure	(B) Wind River Simics(D) Virtual Server 2005 R2	1	4	3
11	Which HTTP method do the REST use existing resource? (A) POST (C) UPDATE	to make an HTTP request to update an (B) PUT (D) DELETE	1	5	3
12	Which of the following techniques allows single physical instance of an application of (A) Virtualization (C) Grid Computing	numerous businesses or clients to share a	1	4	3
	Choose the virtualization technique that is Hypervisor on the hardware. (A) Para virtualization (C) Emulation	(B) Full Virtualization(D) Operating System based	1	4	4
14.	Identify the term that defines a situation of cloud spreads more rapidly and has a large center environments. (A) Data privacy (C) Information assurance	er impact than that in the traditional data (B) Velocity-of-attack	1	5	4
15.	includes servers, storage, netward platform virtualization (A) Cloud infrastructure (C) Cloud Storage	(D) Server securityvorking, cloud management, deployment,(B) Cloud Services(D) Cloud Technologies	1	2	4
16.	Which of the following management pro services to users when unanticipated occ service quality?	cesses aims to promptly routers Claud	1	4	5
	(A) Performance management(C) Capacity Management	(B) · Availability Management (D) Incident Management			
17.	Which of the following features helps EC2 s (A) Auto Replica (C) Auto Scaling	ites scale? (B) Auto Ruling (D) Auto Duplicate	J	4	5
18.	What kind of computing can be employed momentary workload increases? (A) Grid computing (C) Utility computing	(B) Surge computing (D) Nomadic Computing	1	2	5
	What procedure is used in the cloud environ pieces that are dispersed across several serve (A) Sharding	ment to split up large tables into smaller	1	2	5
	(C) Ct-t-1	completely disassembled and has been gy and space as possible. (B) Blade server (D) Remote server	1 	4	5
PART - B (5 × 4 = 20 Marks) Answer any 5 Questions					CO

21.	Sort all cloud application development services into categories	4	2	1
22.	Write the significance of business drivers in cloud	4	2	1
23.	List out the features of ZooKeeper?	4	4	2
24.	How Virtualization works and explain the types of Virtualization techniques	4	4	3
25.	Establishing security rules on an Amazon EC2 instance in the best possible way	4	3	3
26.	Describe the application of the Hadoop Ecosystem and its various components.	4	3	4
27.	Explain the features and types about Yahoo Mashups tools.	4	2	5
	PART - C (5 × 12 = 60 Marks) Answer all Questions	Mari	ks BL	CO
28.	(a) Compare several cloud service models, including their advantages and disadvantages.	12	4	1
	(OR) (b) Zones and Regions are necessary in Google cloud. Justify and describe the various services offered by Google Cloud Platform in it.			
29.	(a) Explain the advantages of cloud computing and depict the cloud computing architecture.	12	5	2
	(OR)			
	(b) Give a brief explanation of ZooKeeper's work flow.			
30.	(a) When should we use virtualization and what are the various approaches to virtualization?	12	4	3
	(OR) (b) Compare the differences between grid and cloud computing and briefly			
	describe the grid computing architecture.			
31.	(a) Briefly describe the necessity, functionality, and advantages of Amazon S3 (OR)	12	5	4
	(b) What is resource provisioning in cloud? Illustrate different resource provisioning methods supported in cloud computing.			
32.	(a) What core benefits do cloud computing applications offer for scientific applications?	12	5	5
	(OR)			
	(b) Give a brief description of the Aneka Application Model's key characteristics			

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