(1)

Exam Date & Time: 03-Oct-2023 (03:15 PM - 04:15 PM)



CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF TECHNOLOGY AND ENGINEERING DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY AND RESEARCH Seventh Semester of B. Tech (CSE) Examination Unit Test - 2

ADVANCE COMPUTING [CS451]

Marks: 30	Duration: 6	d mins.						
	Section - 1							
Answer all the ques	Section Duration: 1	5 mins						
Instructions: (i) Attempt all the qu (ii) Figures to the rig	nestions. ht indicate <i>full</i> marks.							
1	What is edge computing's role in cloud computing?							
	They are unrelated 2) They are the same 2) They are the same 2) They are the same 3) Edge computing provides an alternate location to run workloads at the edge instead of a cloud environment. Edge computing is the cloud's silver lining or the edge of the cloud	(1)						
2	One application of IoT edge computing is using sensors, real-timedata analytics and data operations to run a self-driving car.	(1)						
	1) True 2) False	(1)						
3	What's the difference between edge computing and fog computing?							
	Experts use them interchangeably Description Experts use them interchangeably E	(1)						
Which of the following simply means to hardware or software loadover web servers, that improver efficiency of the server aswell as the application?								
	1) Load Balancing 2) Amazon Cloud- 3) Elastic Load Balancer 4) Security Management	(1)						
5	Which service in Azure is used to manage resources in Azure?							
	1) Azure Portal 2) Log Application Application Insights 4) Azure Resource Manager	(1)						
6 Which of the following services is/are provided by the Google CloudPlatform?								
	1) Machine Learning 2) Storage 3) Compute 4) All of the above	(1)						
7	What is the primary advantage of using Docker?							
	Improved application security	(1)						

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How does Docker differ from traditional virtualization?

	Docker uses hardware-level virtualization		Docker uses 2) software-level virtualization	3) fu	ocker provides ill isolation of e underlying stem	4)	Docker provides less isolation of the underlying system		
9	Which sentence describes better Docker?									
	1) Build once, run twice	2)	Build once, run everywhere			Easy to run, is much more fun		4) All of the above		
10	Fog computing allows for latency-sensitive distributed surveillancethat maintains privacy.									
	1) True 2)	False							(1)	
Section - 2										
Answer 4 out of 5 questions. Instructions: (i) Attempt all the questions. (ii) Figures to the right indicate full marks. (iii) Make suitable assumptions and draw neat figures wherever required. Illustrate the need of Edge Computing? How is Edge Computingrelated to IoT? Explain Two Real-world									i	
	Applications of E	dgeComp	outing.						(5)	
Explain the lifecycle of web application deployment in the Cloudusing Amazon Web Services (AWS) with auto-scaling and highavailability.										
3	Illustrate the characteristics of Fog Computing in detail.									
4	How many Docker components are there? List and explain briefly each component.									
5	Mention the diffe	ence bety	ween virtualization a	and cont	aine	erization.			(5)	

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