Question Paper

Exam Date & Time: 07-Dec-2023 (02:30 PM - 05:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SEVENTH SEMESTER B.TECH END SEMESTER EXAMINATIONS, DEC 2023

Cloud Computing [ICT 4045]

Marks: 50 Duration: 180 mins.

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Answer all the questions.

Instructions to Candidates: Answer ALL questions Missing data may be suitably assumed

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1)		What are the problems faced by X86 for virtualization initially, and how were they addressed by VMware, explain. Discuss how is it resolved in modern X86 machines.	(5)
	A)		
	B)	Discuss any two methods used to protect the storage failure.	(3)
	C)	What is multi cloud deployment? Explain.	(2)
2)		Which are the two ways that the webservices are implemented? Explain.	(5)
	A)		
	B)	Identify three threats for virtual data center and discuss how to address them.	(3)
	C)	Explain how Defence in depth is used in a virtual data center.	(2)
3)		For a data set containing name and salary key value pair, explain with a figure how would you proceed using Map-Reduce framework to find maximum salaried person name.	(5)
	A)		
	B)	Distinguish between microservice architecture and three tier architecture.	(3)
	C)	Discuss the main steps required to simulate a cloud environment in cloudsim.	(2)
4)		With a suitable example explain weighted max-min scheduling algorithm.	(5)
	A)		
	B)	What is the technique used for backup optimization? Explain.	(3)
	C)	An organization XYZ has two types of requirement. Some of its functionality requires high security and rest normal level security. Suggest a deployment model for this organization and explain with suitable figure.	(2)
5)		What are the components involved in a backup architecture? Explain backup operation.	(5)
	A)		
	В)	An ABC company wants to use suitable desktop virtualization for supporting windows server. Suggest a suitable desktop virtualization technique for them and explain.	(3)

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