H192072

Reg No.:_

Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY EIGHTH SEMESTER B.TECH DEGREE EXAMINATION(S), OC

Course Code: CS468

Course Name: CLOUD COMPUTING

Max. Marks: 100

Duration: 3 Hours

Pages

	PART A Answer all questions, each carries 4 marks.	Marks
1	What is cloud computing? What are the key features of a cloud system?.	(4)
2	How hybrid cloud helps in the growth of your business?	(4)
3	How various virtualization techniques helped in the growth of cloud computing	(4)
	paradigm?	
4	How a virtual machine is created and managed?	(4)
5	Compare MapReduce and iterative MapReduce	(4)
6	What is the function of a tablet server in big table?	(4)
7	What are the major challenges in implementing IaaS security?	(4)
8	List the major components of data governance framework.	(4)
9	How better project management can be done with the help of online project	(4)
	management applications? Give an example.	
10	With the help of Google Docs, discuss collaborating on word processing	(4)

PART B

Answer any two full questions, each carries 9 marks.

11	a)	How dynamic binary translation improves the performance of Instruction Set	(5)
		Architecture (ISA) virtualization compared to code interpretation?	
	b)	Illustrate with suitable example how memory virtualization is achieved.	(4)
12	a)	State the significance of IaaS service model with suitable cloud services.	(3)
	b)	How a public cloud differs from private cloud? Give examples for both.	(3)
	c)	With a neat diagram discuss the layered architectural design of cloud platform	(3)
		for IaaS, PaaS, and SaaS.	
13	a)	How a process virtual machine is implemented?	(5)

b) Compare Grid, Cluster and Cloud Computing paradigms. (4)

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PART C

Answer any two full questions, each carries 2 marks.

- 14 a) Explain various resource provisioning policies in cloud computing?
- How Amazon EC2 provides load balancing? b) (3) How chunk size is chosen in Google File System (GFS) ? What is the default 15 a) (5) chunk size in Google File System and in Hadoop Distributed File System (HDFS) ? Compare GFS and HDFS. b) Analyze how Big Table supports data scaling? (4) Discuss about Google App Engine with the help of suitable diagram. 16 a) (4) b) Illustrate how the dataflow in MapReduce differs in single reduce task, multiple (5) reduce task, and no reduce task.

PART D

Answer any two full questions, each carries 12 marks.

- 17 a) How the phases of secure software development life cycle (secSDLC) ensure (6) that framework modules are thoroughly tested for security issues before implementation?
 - b) Analyse how a proper security architecture design helps to test the security of (6) applications and systems.
- a) Define cloud service. How cloud services help you to organize your activities in (6)
 a family by online calendar application? Analyze the opportunities for collaboration with Google Calendar.
 - b) List at least four main benefits of online event management. Explain how these (6) benefits are offered by an online cloud service by citing any popular online event management application.
- 19 a) How an online database works? Write any two online database services. (6)
 - b) How application security is offered in software-as-a-service model? Discuss (6) with respect to an online database service.

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