



Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

Course Code: CS468

Course Name: CLOUD COMPUTING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 4 marks.

		Marks
1	State the differences between a traditional computer and a virtual machine.	(4)
2	Define virtualization. What is the role of VMM in virtualization.	(4)
3	Differentiate public and private clouds in terms of flexibility.	(4)
4	Explain the following methods: a) Demand-Driven Resource Provisioning. b) Event-Driven Resource Provisioning.	(4)
5	Design the architecture of Amazon web services.	(4)
6	What is meant by Map Reduce? Explain the logical data flow of MapReduce function using suitable example.	(4)
7	Why it is harder to establish security in the cloud?	(4)
8	Explain in detail about the seven security issues one should discuss with a cloud-computing vendor.	(4)
9	Mention any one of the web-based appointment scheduling applications and its key features .	(4)
10	Briefly describe the working of Online databases.	(4)

PART B

Answer any two full questions, each carries 9 marks.

11	a) Explain various implementation levels of Virtualization.	(9)
12	(a) Explain PaaS model for cloud computing. (b) With a neat diagram write about Google App Engine for PaaS applications.	(5) (4)
13	a) How Memory virtualization is implemented? Provide necessary examples and diagrams wherever necessary b) How is Grid Computing different from Cloud Computing?	(5) (4)

PART C

Answer any two full questions, each carries 9 marks.

- 14 (a) With a neat diagram explain Generic Cloud architecture and components. (6)
(b) What are the critical QoS parameters to consider in a cloud service request? (3)
- 15 (a) What is BigTable? What are the building blocks of BigTable? (4)
(b) Write notes on Google File System. (5)
- 16 a) Explain any three cases of static cloud resource provisioning policies with suitable figures. (4)
b) Write short notes on Pig Latin High Level Language. (5)

PART D

Answer any two full questions, each carries 12 marks.

- 17 (a) Explain Security Architecture Design in cloud. (6)
(b) What are the major security challenges in clouds? (6)
- 18 a) Describe any 3 examples for Online Calendar applications (9)
b) List any two Online Planning and Task management applications (3)
- 19 a) Explain the life cycle of Secure Software Development (SecSDLC). (6)
b) Discuss how collaboration on Schedules is made easy with Cloud Computing (6)
