

C

H1065



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.*

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|----|---|------------|
| 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)
