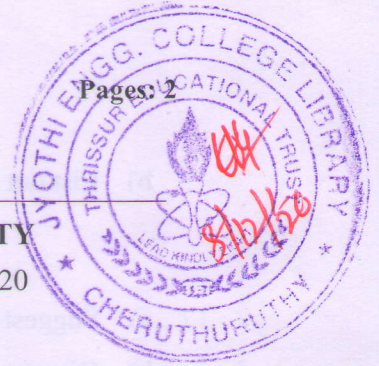


Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

Eighth semester B.Tech degree examinations, September 2020

**Course Code: CS468****Course Name: CLOUD COMPUTING**

Max. Marks: 100

Duration: 3 Hours

**PART A***Answer all questions, each carries 4 marks.*

- |  | Marks |
|--|-------|
| 1 Mention the different cloud deployment models.                           | (4)   |
| 2 List out the benefits of virtualization.                                 | (4)   |
| 3 What is the role of hypervisor in virtualization?                        | (4)   |
| 4 What do you mean by demand driven resource provisioning?                 | (4)   |
| 5 Describe the architecture of Microsoft Windows Azure.                    | (4)   |
| 6 What are the various data types used in Pig Latin programs?              | (4)   |
| 7 Describe the importance of security monitoring in cloud security.        | (4)   |
| 8 How does the data level security can be enabled in cloud system?         | (4)   |
| 9 List out the features of cloud-based project management tool.            | (4)   |
| 10 Mention any two of the cloud-based appointment scheduling applications. | (4)   |

**PART B***Answer any two full questions, each carries 9 marks.*

- |  |     |
|--|-----|
| 11 a) Mention the key difference in full virtualization and para-virtualization. | (3) |
| b) Explain the implementation levels of virtualization.                          | (6) |
| 12 a) Explain different I/O virtualization approaches.                           | (6) |
| b) Write a note on service oriented architecture.                                | (3) |
| 13 a) Explain IaaS and SaaS, with diagram.                                       | (6) |
| b) Write a note on grid computing infrastructure.                                | (3) |

**PART C***Answer any two full questions, each carries 9 marks.*

- |  |     |
|--|-----|
| 14 a) Explain layered cloud architecture design steps.             | (5) |
| b) Write a note on Open Stack software environment.                | (4) |
| 15 a) Explain briefly about Google File System (GFS) architecture. | (5) |
| b) Explain HDFS architecture in Hadoop.                            | (4) |
| 16 a) Explain the data and control flow in Map Reduce.             | (6) |

- b) List out the different methods for virtual machine creation. (3)

**PART D**

*Answer any two full questions, each carries 12 marks.*

17. a) Suggest two cloud based tools for social networking. Mention its benefits. (4)  
b) Discuss cloud security challenges in detail. (8)
18. a) Explain the working of cloud based databases. (8)  
b) How a cloud based task scheduling application works? List out the benefits of using such system. (4)
19. a) Describe risk management features in relation to cloud security. (6)  
b) Describe security architecture design of cloud system. (6)

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