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| **ST. JOSEPH’S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI.**  EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, JUNE 2021 | | | | | |
| Course Code: CS468 | | | | | |
| Course Name: CLOUD COMPUTING | | | | | |
| Max. Marks: 70 | | |  | Duration: 2.15 Hours | |
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| **PART A** | | | | | |
|  |  | ***Answer any two full questions, each carries 10.5 marks.*** | | | Marks |
| 1 | a) | Distinguish the various implementation levels of virtualization. | | | (7) |
|  | b) | How memory virtualization is done in cloud environment? | | | (3.5) |
| 2 | a) | Illustrate the PaaS model for cloud computing in detail. | | | (7) |
|  | b) | Differentiate public, private and hybrid clouds with suitable examples. | | | (3.5) |
| 3 | a) | With necessary diagrams illustrate the primitive virtual machine operations. | | | (7) |
|  | b) | Compare grid, cluster and cloud computing paradigms. | | | (3.5) |
| **PART B** | | | | | |
| ***Answer any two full questions, each carries 10.5 marks.*** | | | | | |
| 4 | a) | Classify static cloud resource provisioning policies with graphical representation? | | | (7) |
|  | b) | How a virtual machine is created and managed? | | | (3.5) |
| 5 | a) | Define Map Reduce function with the help of logical data and control flow diagram. Describe with a suitable example. | | | (7) |
|  | b) | Compare Map Reduce and Iterative Map Reduce functions. | | | (3.5) |
| 6 | a) | How the Big Table supports data scaling in cloud environment? | | | (7) |
|  | b) | Distinguish the characteristics of emerging cloud software environment Nimbus. | | | (3.5) |
| **PART C** | | | | | |
| ***Answer any two full questions, each carries 14 marks.*** | | | | | |
| 7 | a) | Illustrate different phases of the life cycle of Secure Software Development. | | | (8) |
|  | b) | Discriminate the major components of data governance framework. | | | (6) |
| 8 | a) | Define cloud service. How cloud services help to organize the daily timeline activities in a family environment using online calendar application? Analyze the opportunities for collaboration with Google Calendar. | | | (8) |
|  | b) | How the major security challenges affect cloud operations? | | | (6) |
| 9 | a) | Evaluate the benefits of cloud-based event management platforms with the help of any 3 popular event management applications. | | | (8) |
|  | b) | List and describe the necessary services to be included while designing the security architecture of a cloud computing environment. | | | (6) |