***RG 22Regulation***

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**BRANCH:Common to CSE,CS,DS YEAR/SEM: III/II**

**COURSE TITLE: CLOUD COMPUTING (22A0529T) ACADEMIC YEAR: 2024-25**

**FACULTY: Mr.U.SATYANARAYANA, Mr.DVH VENU KUMAR, Mr.D.RAMESH**

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| **CLOUD COMPUTING**  **QUESTION BANK** |

**UNIT-I**

**12-Marks Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | Explain about Cloud Computing and its history. | **1** | **2** | **12** |
| **2** | Explain about Cloud Computing reference model. | **1** | **2** | **12** |
| **3** | Discuss the characteristics and benefits of Cloud Computing. | **1** | **2** | **12** |
| **4** | Illustrate the Challenges Ahead in Cloud, | **1** | **2** | **12** |
| **5** | Explain the significance of Elasticity in Cloud. | **1** | **2** | **12** |
| **6** | Discuss about On-demand Provisioning in Cloud. | **1** | **2** | **12** |
| **7** | Demonstrate the characteristics of Virtualized Environment. | **1** | **2** | **12** |
| **8** | Explain the Taxonomy of Virtualization Techniques. | **1** | **2** | **12** |
| **9** | Explain the implementation of Virtualization on Cloud Servers. | **1** | **2** | **12** |
| **10** | Differentiate the advantages and disadvantages of Cloud. | **1** | **2** | **12** |

**2-Marks Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | Define Cloud Computing. | **1** | **1** | **2** |
| **2** | What is the history of Cloud Computing? | **1** | **1** | **2** |
| **3** | What is Cloud Computing reference model? | **1** | **1** | **2** |
| **4** | What are the Challenges Ahead in Cloud? | **1** | **1** | **2** |
| **5** | Define Scalability in Cloud. | **1** | **1** | **2** |
| **6** | Define Elasticity in Cloud. | **1** | **1** | **2** |
| **7** | What is Virtualization? | **1** | **1** | **2** |
| **8** | Why Virtualization is used in Cloud? | **1** | **1** | **2** |
| **9** | What is On-demand Provisioning in Cloud? | **1** | **1** | **2** |
| **10** | What is Taxonomy of Virtualization? | **1** | **1** | **2** |

**UNIT-II**

**12-Marks Questions**

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| --- | --- | --- | --- | --- |
| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | Discuss about Cloud Computing Architecture with a neat sketch. | **2** | **2** | **12** |
| **2** | Explain about the working of Cloud Reference Model. | **2** | **2** | **12** |
| **3** | Explain the importance of Infrastructure as a Service in Cloud. | **2** | **2** | **12** |
| **4** | Discuss the role and responsibilities of Software as a Service in Cloud. | **2** | **2** | **12** |
| **5** | Illustrate the significance of Platform as a Service in Cloud. | **2** | **3** | **12** |
| **6** | Demonstrate the Cloud Deployment Model. | **2** | **3** | **12** |
| **7** | Differentiate the Public Cloud Vs Private Cloud. | **2** | **2** | **12** |
| **8** | Explain the concept of Hybrid Cloud. | **2** | **2** | **12** |
| **9** | Explain the Community Cloud and its advantages. | **2** | **2** | **12** |
| **10** | Discuss the importance of Economics of the Cloud. | **2** | **2** | **12** |

**2-Marks Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | What is front-end & back-end in cloud environment? | **2** | **1** | **2** |
| **2** | Define Cloud service consumer. | **2** | **1** | **2** |
| **3** | Define Cloud service provider. | **2** | **1** | **2** |
| **4** | Define IaaS. | **2** | **1** | **2** |
| **5** | Define PaaS. | **2** | **1** | **2** |
| **6** | Define SaaS. | **2** | **1** | **2** |
| **7** | What is Cloud Deployment Model? | **2** | **1** | **2** |
| **8** | Define Public Cloud. | **2** | **1** | **2** |
| **9** | Define Hybrid Cloud. | **2** | **1** | **2** |
| **10** | What is Community cloud. | **2** | **1** | **2** |

**UNIT-III**

**12-Marks Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | Discuss the Cloud Technologies and Advancements used in cloud. | **3** | **2** | **12** |
| **2** | Explain the importance of Apache Hadoop in Cloud. | **3** | **2** | **12** |
| **3** | Explain the MapReduce function in cloud. | **3** | **2** | **12** |
| **4** | Demonstrate the configuration of a Hadoop Cluster in a cloud environment | **3** | **3** | **12** |
| **5** | Explain the significance of Virtual Box implementation. | **3** | **2** | **12** |
| **6** | Explain Google App Engine and its advantages. | **3** | **2** | **12** |
| **7** | Discuss about Programming Environment for Google App Engine. | **3** | **2** | **12** |
| **8** | Demonstrate the Open Stack implementation in cloud. | **3** | **3** | **12** |
| **9** | Write about MapReduce Function. | **3** | **2** | **12** |
| **10** | Explain the procedure for GAE installation and its flow | **3** | **2** | **12** |

**2-Marks Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | Define Hadoop Big Data. | **3** | **1** | **2** |
| **2** | What is the use of Apache Hadoop in Cloud? | **3** | **1** | **2** |
| **3** | Define MapReduce function. | **3** | **1** | **2** |
| **4** | Why Hadoop Cluster setup is used in cloud? | **3** | **1** | **2** |
| **5** | Define Virtual Box. | **3** | **1** | **2** |
| **6** | What is Google App Engine? | **3** | **1** | **2** |
| **7** | What is shuffling and sorting in MapReduce function? | **3** | **1** | **2** |
| **8** | What is Open Stack? | **3** | **1** | **2** |
| **9** | What is map reduce workflow? | **3** | **1** | **2** |
| **10** | Draw the neat sketch of MapReduce function | **3** | **1** | **2** |

**UNIT-IV**

**12-Marks Questions**

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| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | Explain the basics of VMWare. | **4** | **2** | **12** |
| **2** | Discuss the advantages of VMware virtualization. | **4** | **2** | **12** |
| **3** | Demonstrate the procedure to Create a new virtual machine on local host. | **4** | **3** | **12** |
| **4** | Explain the method of cloning virtual machines. | **4** | **2** | **12** |
| **5** | Discuss the procedure to virtualize a physical machine. | **4** | **2** | **12** |
| **6** | Demonstrate the process of starting and stopping a virtual machine. | **4** | **3** | **12** |
| **7** | Explain about VMware Simulator. | **4** | **2** | **12** |
| **8** | Explain the procedure of VMWare Installation | **4** | **2** | **12** |
| **9** | Explain the procedure for installing Windows/Ubuntu in VMWare | **4** | **2** | **12** |
|  |  |  |  |  |

**2-Marks Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | Define VMware Simulator. | **4** | **1** | **2** |
| **2** | What is local host OS? | **4** | **1** | **2** |
| **3** | Define Cloning in cloud environment. | **4** | **1** | **2** |
| **4** | What is physical machine? | **4** | **1** | **2** |
| **5** | What is Virtual machine? | **4** | **1** | **2** |
| **6** | Define Hypervisor. | **4** | **1** | **2** |
| **7** | What is guest OS? | **4** | **1** | **2** |
| **8** | How to start/Stop VMWare | **4** | **1** | **2** |
| **9** | What are the software’s used for virtualization | **4** | **1** | **2** |

**UNIT-V**

**12-Marks Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | Explain the different Cloud Applications. | **5** | **2** | **12** |
| **2** | Discuss the importance of cloud in Scientific applications. | **5** | **2** | **12** |
| **3** | Explain the applications of cloud in Health care system. | **5** | **2** | **12** |
| **4** | Demonstrate the importance of cloud in Geoscience | **5** | **3** | **12** |
| **5** | Discuss the Business and Consumer applications of cloud. | **6** | **2** | **12** |
| **6** | Expalin about CRM and ERPon cloud computing. | **6** | **2** | **12** |
| **7** | Illustrate the significance of cloud in Social Networking. | **6** | **2** | **12** |
| **8** | Discuss the use of cloud in Media Applications. | **6** | **2** | **12** |
| **9** | Explain the use of cloud in Multiplayer Online Gaming. | **6** | **2** | **12** |
| **10** | Apply cloud computing solutions to business and consumer application scenarios | **6** | **3** | **12** |

**2-Marks Questions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Question** | **CO** | **BL** | **Marks** |
| **1** | What are the different Cloud Applications? | **5** | **1** | **2** |
| **2** | Give some Scientific Applications of cloud. | **5** | **1** | **2** |
| **3** | How cloud is used in health care system? | **5** | **1** | **2** |
| **4** | What is the role of cloud in Geo science? | **5** | **1** | **2** |
| **5** | How cloud is used in business and consumer applications? | **6** | **1** | **2** |
| **6** | What is the importance of cloud in social media? | **6** | **1** | **2** |
| **7** | How cloud is applied in multiplayer online gaming? | **6** | **1** | **2** |
| **8** | Explain the significance of cloud in Social Networking | **6** | **1** | **2** |

**Signature of the Staff:**

**Signature of Department Academic Committee Member 1:**

**Signature of Department Academic Committee Member 2:**

**Signature of Department Academic Committee Member 3:**