***INTERNAL ASSESMENT - I [Academic Year: 2022-23]***

**Sub with Code: Cloud Computing and its Applications(18CS643) Semester: 6th**

**Max Marks : 50 Time: 90 min**

**Note: Answer all the questions.**

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| **1.** | **a.** | Explain historical developments of cloud computing. | **6M** | | **(CO1)** | **BL2** |
| **b.** | Difine cloud computing?what are the characteristics, benefits and challenges of cloud computing? | **4M** | | **BL2** |
| **(OR)** | | | | |  |
| **2.** | **a.** | Explain the requirements of building cloud computing environments in detail. | **10M** | | **BL2** |
|  | | | | | |  |
| **3.** | **a.** | Explain VMM main modules and also 3VMM properties that it has to satisfy. | **10M** | | **(CO1)** | **BL2** |
| **(OR)** | | | | |  |
| **4.** | **a.** | Explain in detail two types of hypervisor with diagram. | **10M** | | **BL2** |
|  | | | | | |  |
| **5.** | **a.** | Compare Full virtualization and Para Virtualization(5 points each) | | **10M** | **(CO1)** | **BL3** |
| **(OR)** | | | | |  |
| **6.** | **a.** | What are the 3 theorems that define the properties that hardware instructions need to satisfy, in order to support virtualization? | **10M** | | **BL2** |
|  | | | | | |  |
| **7.** | **a.** | Illustrate cloud computing architecture | **10M** | | **(CO4)** | **BL3** |
| **(OR)** | | | | |  |
| **8.** | **a.** | Compare different types of cloud? Explain indetail. | **10M** | | **BL3** |
|  | | | | | |  |
| **9.** | **a.** | Explain different types of virtualization? | **10M** | | **(CO1)** | **BL2** |
| **(OR)** | | | | |  |
| **10.** | **a.**  **b.** | Discuss the importance and need for virtualization in cloud.  Distinguish between two security classes of ISA. | **05M**  **05M** | | **BL2** |

**CO1: Explain** basic concepts of cloud computing, virtualization and classify services of cloud computing.

**CO4: Use** cloud platforms to develop applications

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| **Signature** | **Course-Coordinator** | **Module-Coordinator** | **Test-Coordinator** | **HOD** |
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