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## Sixth Semester B.E. Degree Examination, June/July 2023
## Cloud Computing and Virtualization

Time: 3 hrs.                                                      Max. Marks: 100

### Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

**1**  a. Define Cloud computing. Explain different ethical issues in cloud computing. **(10 Marks)**
b. Briefly explain windows Azure and online services. **(10 Marks)**

**OR**

**2**  a. Briefly explain cloud vulnerabilities. List different challenges faced by cloud computing. **(10 Marks)**
b. Explain Open source software plateform for private clouds. **(10 Marks)**

### Module-2

**3**  a. Write a note on Grep the web application. Explain different steps involve in Grep the web application. **(10 Marks)**
b. List and explain the difference between workflow of traditional transaction oriented system and cloud workflow. **(10 Marks)**

**OR**

**4**  a. Briefly explain architectural styles for cloud application. **(10 Marks)**
b. Briefly explain how cloud computing technology used in the application for science and engineering. **(10 Marks)**

### Module-3

**5**  a. Define Virtualization. Briefly explain full virtualization and paravirtualization technique. **(10 Marks)**
b. With a neat diagram explain how you can perform optimization of network virtualization in Xen 2.0. **(10 Marks)**

**OR**

**6**  a. Explain different layers of virtualization. List and explain characteristics of virtualization. **(10 Marks)**
b. Briefly explain the darker side of virtualization. **(10 Marks)**

### Module-4

**7**  a. List and explain the policies and mechanism for resource management. **(10 Marks)**
b. Briefly explain Fair queuing algorithm. **(10 Marks)**

**OR**

**8**  a. Explain stability of a two-level resource allocation architecture. List different main sources of instability in control system. **(10 Marks)**
b. Write and briefly explain ASCA Combinatorial Action Algorithm. **(10 Marks)**

### Module-5

**9**  a. Briefly explain "Privacy" and privacy impact assessment in terms of cloud computing. **(10 Marks)**
b. Define Dom0. List and explain different steps involves for a Dem0 process. **(10 Marks)**

**OR**

**10**  a. In terms of cloud computing. Write a note on : i) Security  ii) Trust. **(10 Marks)**
b. List and explain VMM-based threat and VM based threats. **(10 Marks)**

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