

**Seventh Semester B. E. (Information Technology) Examination**

**VIRTUALIZATION AND CLOUD COMPUTING**

Time : 3 Hours ]

[ Max. Marks : 60

**Instructions to Candidates :—**

- (1) All questions carry equal marks.
- (2) Assume suitable data wherever necessary.
- (3) Write answers to the point with neat diagrams.

1. (a) Explain the benefits of Virtualization for Cloud computing. 5 (CO 1)  
(b) Explain hardware supported virtualization. What is the benefit of hardware supported virtualization ? Explain how Intel will support virtualization. 5 (CO 2)
2. (a) What are different levels where we implement virtualization ? 6 (CO 2)  
(b) Explain the ways of I/O device virtualization. 4 (CO 2)
3. (a) Explain the In–band and Out–band architecture of Storage Area Network. List advantages of each. 6 (CO 3)  
(b) List and explain the risks associated with migrating to Virtualization System. 4 (CO 3)
4. (a) Explain who will benefited from Cloud computing. 4 (CO 1)  
(b) Explain different models for deployment in cloud computing. 6 (CO 1)

**OR**

Explain Infrastructure as a Service (IaaS) and list some vendors and their offerings for IaaS. 6 (CO 2)

5. (a) Explain Google AppEngine Platform Architecture. 5 (CO 4)

**OR**

What is Azure Storage ? What kind of services provided by Azure Storage ?  
5 (CO 3)

- (b) Explain the different services offered by Microsoft Azure. 5 (CO 4)
6. (a) Explain the VmWare ESX virtualization tool. 6 (CO 4)
- (b) Define the terms must be include in Cloud service contract. 4 (CO 3)