

Subject Code: H2508/R13

M. Tech –II Semester Regular/ Supply Examinations, October, 2015

CLOUD COMPUTING

(Common to SE, IT, CS&T and CS&E)

Time: 3 Hours

Max Marks: 60

Answer any FIVE questions

All questions carry EQUAL marks

- 1 a What is virtualization? How virtualization is useful in Grid Computing? [6]
b Differentiate between traditional way of computing and on demand computing. [6]
- 2 a Explain how collaborative computing lead to the development of cloud computing. [5]
b With respect to cost of computing how managed outsourcing services and cloud services differ? [7]
- 3 a What is capacity planning? How to estimate load for capacity planning? [6]
b Explain about Dynamic, Proactive and Reactive capacity scaling. [6]
- 4 a What are the challenges in cloud services with respect to software licenses? [6]
b What is the criteria and procedure to estimate cloud service availability? [6]
- 5 a What is reliability of a cloud service? How it is related to availability? [5]
b Draw and explain the basic architecture of web applications. [7]
- 6 Write about the following cloud service models:
a. Storage – as – a – service
b. Governance – as – a – service
c. Testing – as – a – service [12]
- 7 a What is a machine image? What are the steps involved in establishing a machine image? [6]
b What are clustering and replication? What is their role in cloud database design? [6]
- 8 a How data segmentation can protect sensitive information in cloud systems? [6]
b What are different types of data to be backed up to help cloud disaster recovery? [6]
