

Code No: RT42043E

R13

Set No. 1

IV B.Tech II Semester Supplementary Examinations, July/August - 2017

CLOUD COMPUTING

(Common to Electronics & Communication Engineering and Computer Science & Engineering)

Time: 3 hours

Max. Marks: 70

*Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B*

PART-A (22 Marks)

1. a) Explain about the Energy efficiency in Distributed computing. [4]
- b) How virtualization can be implemented in the multi-core processors. [3]
- c) Write a short note on Google App Engine [4]
- d) What are the traditional features common to grids and clouds. [4]
- e) What is Start- Time Fair query? Explain. [3]
- f) Explain briefly about the general Parallel File System. [4]

PART-B (3x16 = 48 Marks)

2. a) What are the advantages of Cloud Computing over the Internet? Explain? [8]
- b) Give the architecture of P2P systems. What are the major categories of P2P Network families? [8]
3. a) Explain the differences between full-virtualization and para-virtualization and give one example VMM (virtual machine monitor), that was built in each of the two categories. [8]
- b) Write and explain about intel hardware support for virtualization of processor, memory and I/O Devices? [8]
4. a) Explain about Resource provisioning and Platform deployment? [8]
- b) What is SOA? Discuss with architecture how two software communicate using SOA. [8]
5. a) Write and explain about programming on Amazon AWS and Microsoft Azure? [8]
- b) What are emerging cloud software environments? Explain with examples? [8]
6. a) Write about the scheduling algorithms for computing clouds. [8]
- b) Explain the cloud scheduling subject to deadlines? [8]
7. a) Discuss the megastore model with an example? [8]
- b) "blinding performance depends on removing overhead." Comment on this argument regarding the *NoSQL* concept [8]