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]

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