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10CS/IS845

Eighth Semester B.E. Degree Examination, June/July 2018
Clouds, Grids and Clusters

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. Explain the concept of full virtualization and paravirtualization in cloud computing. (08 Marks)
b. Briefly explain the application of cloud computing. (06 Marks)
c. When you shouldn't use cloud computing? Explain. (06 Marks)
- 2 a. Explain how Thomson Reuters providing intelligent cloud services to help their customers. (08 Marks)
b. Discuss deleting your Datacenter. (06 Marks)
c. Explain salesforce.com APPEXchange. (06 Marks)
- 3 a. Explain the network used in cloud to deliver best resources. (10 Marks)
b. Why do we need standards in cloud computing? How communication protocols works to establish connection between customer and cloud applications. (10 Marks)
- 4 a. Briefly explain the Google and IBM company offerings. (08 Marks)
b. Write the advantages and the limitations of SaaS. (06 Marks)
c. Explain Thin client. (06 Marks)

PART – B

- 5 a. What is Metacomputing? How it helps in Grid computing. (06 Marks)
b. Explain the layered Architecture of grid computing environment. (08 Marks)
c. What is WSRF? Explain WSRF specification. (06 Marks)
- 6 a. What are stubs? Explain the role of stubs in SOA. (06 Marks)
b. What is Globus Toolkit? List any six main features of GT₄ Functionality. (08 Marks)
c. Briefly explain Eurogrid project. (06 Marks)
- 7 a. Explain cluster programming and Environment tools. (08 Marks)
b. Explain Resource management and scheduling. (06 Marks)
c. Briefly explain system monitoring in cluster computing. (06 Marks)
- 8 Write short notes on ; (05 Marks)
a. Types of failures and errors (05 Marks)
b. Profit Effectiveness of parallel computing through clusters (05 Marks)
c. Policies for Resource utilization (05 Marks)
d. Strategies for load balancing. (05 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank page.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.