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10CS/IS845

Eighth Semester B.E. Degree Examination, Dec.2017/Jan.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. What is cloud computing? Explain the cloud components. (08 Marks)
b. Justify when one should use and when not to use cloud computing. (08 Marks)
c. Briefly explain about two major limitations of cloud. (04 Marks)
- 2 a. If you are running a business, justify the use of cloud by elaborating the benefits offered by cloud. (08 Marks)
b. Identify the key points, how the use of cloud benefits the staff at consumer and provider sides. (08 Marks)
c. Explain about cloud at Thomson Reuters. (04 Marks)
- 3 a. Explain different levels of connectivity needed to use cloud through internet. (08 Marks)
b. What are the three different types of clients that can use cloud services? (06 Marks)
c. Explain Amazon simple storage service. (06 Marks)
- 4 a. What is software as a service? What are the driving forces that make the SaaS popular? (08 Marks)
b. What is Virtualization? How companies get benefited using Virtualization? (07 Marks)
c. Explain the cloud services available for individuals. (05 Marks)

PART – B

- 5 a. Explain Grid computing. Elaborate how grid concept is used in projects FAFNER and I-WAY. (08 Marks)
b. Explain the layered Grid architecture. (07 Marks)
c. What is WSRF? Mention its specifications. (05 Marks)
- 6 a. Explain DOE'S science Grid project. (06 Marks)
b. Explain the procedure to create web services using stubs. (08 Marks)
c. Briefly explain about Globus project and Globus toolkit. (06 Marks)
- 7 a. Explain Cluster middleware architecture and levels of single system image. (07 Marks)
b. Explain early cluster architectures. (08 Marks)
c. Briefly explain the concept of metaclusters. (05 Marks)
- 8 a. Explain different faults and error detection mechanisms used in clusters. (06 Marks)
b. What are the different performance measures and metrics used to evaluate clusters? (06 Marks)
c. Explain in detail the Beowulf cluster. (08 Marks)

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