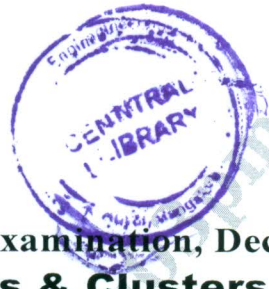


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**Eighth Semester B.E. Degree Examination, Dec.2018/Jan.2019**  
**Clouds, Grids & Clusters**

Time: 3 hrs.

Max. Marks:100

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

**PART – A**

- 1 a. What is cloud computing? With a neat diagram, explain the main components of a cloud system. (07 Marks)
- b. Explain the various types of cloud delivery services. (06 Marks)
- c. Describe the benefits and limitations of cloud computing to the organizations. (07 Marks)
- 2 a. How do you evaluate SaaS? Explain. (08 Marks)
- b. Elucidate the operational benefits of moving to cloud. (06 Marks)
- c. Explain the cloud services by Amazon and Google. (06 Marks)
- 3 a. Compare the types of internet connectivity for clouds. (08 Marks)
- b. Explain the working of S3 and big table data stores. (06 Marks)
- c. What is open virtualization format? Describe the standards developed by VMWare to work with other vendors. (06 Marks)
- 4 a. Describe the benefits of software plus services for the organizations. List any four vendors of this service. (07 Marks)
- b. What is virtualization? Why it is needed? Explain how virtualization is carried out. (07 Marks)
- c. Explain the offerings of HP and Dell as thin clients. (06 Marks)

**PART – B**

- 5 a. What is grid computing? Explain the key functional requirements for any grid. (05 Marks)
- b. Describe the layered architecture of a grid system. (06 Marks)
- c. Explain the WSRF specifications used in managing WS-Resource. (05 Marks)
- d. Elucidate the port types supported by Grid Service Specification (GSS). (04 Marks)
- 6 a. What is GGF? Write the objectives of GGF. (06 Marks)
- b. With a neat diagram, explain the architecture of CondorG. (05 Marks)
- c. Explain the process of creation and invocation of web services. (04 Marks)
- d. With a neat diagram, explain the functions performed by GT4 container. (05 Marks)
- 7 a. What is a cluster? Explain the various categories of clusters. (06 Marks)
- b. With a neat diagram, explain the cluster middleware architecture and how it provides single system image. (08 Marks)
- c. Explain the process of system monitoring and directory services in clusters. (06 Marks)
- 8 a. Describe the various cluster architectures and configurations for high availability. (10 Marks)
- b. Elucidate the policies for resource utilization in cluster environment. (10 Marks)

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