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## Eighth Semester B.E. Degree Examination, Dec.2016/Jan.2017 Clouds, Grids and Clusters

Time: 3 hrs. Note: Answer FIVE full questions, selecting at least TWO questions from each part. Max. Marks:100

## PART - A

1	a.	What is cloud computing? With a neat diagram, explain the main components of cloud
		computing. (06 Marks)
	b.	Describe software as a service (SaaS) of cloud computing. (06 Marks)

b. Describe software as a service (SaaS) of cloud computing.

Explain the benefit and limitations of cloud computing to the organizations. (08 Marks)

2	a.	List and explain the tips for evaluating SaaS.	(08 Marks)
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(06 Marks) b. Describe the six services provided by Amazon as a cloud vendor.

What are the staffing benefits of cloud computing from the following perspectives: i) Consumer ii) Provider (06 Marks)

a. Describe the six issues to be considered for providing security in cloud. (06 Marks)

b. Compare the four types of network connection with respect to their capability and (08 Marks) limitations.

c. Explain the following type of web services:

i) Representation State Transfer (REST)

ii) Simple object Access Protocol (SOAP).

(06 Marks)

(07 Marks)

Describe the features of Google as a SaaS provider. (04 Marks)

Write the pros and cons of software plus services. List the major vendors of software plus b. (08 Marks) services.

Explain the concerns and the process of What are the benefits of virtualization? implementing virtualization. (08 Marks)

## PART - B

- What is grid computing? Explain the four key requirements of grid computing. (05 Marks) 5 a.
  - With a neat diagram, describe the layered architecture of the grid computing. (08 Marks) b.
  - c. Explain the following: i) Storage Request Broker (SRB) ii) Port Types of grid service specification.
- a. What is GGF? What are its objectives? List the major areas of concern in GGF. (08 Marks) 6
  - b. Describe the process of web services creation and invocation. (05 Marks)
  - With a neat diagram, explain the actions performed and functionalities of a GT4 container. (07 Marks)
- What is cluster computing? With a neat diagram, explain the architecture of cluster 7 middleware to provide single system image of the cluster. (10 Marks)
  - b. With a neat diagram, explain the layered resource management architecture of condor in (06 Marks) high throughput clusters. (04 Marks)
  - Explain the process of system monitoring in clusters.
- Describe the various types of cluster configurations for high availability. (10 Marks) 8 a.
  - Explain the functions performed by the job management systems in a cluster environment. (10 Marks)

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