



USN

--	--	--	--	--	--	--	--	--	--

10CS/IS845

**Eighth Semester B.E. Degree Examination, July/August 2021**  
**Clouds, Grids and Clusters**

Time: 3 hrs.

Max. Marks: 100

**Note: Answer any FIVE full questions.**

- 1 a. Define Cloud. With neat diagram, explain briefly cloud components. (10 Marks)  
b. Write a note on virtualization. (04 Marks)  
c. Explain 3 different major implementations of cloud computing. (06 Marks)
- 2 a. List and explain operational and economic benefits of cloud computing. (10 Marks)  
b. Explain Thomson reuters with its working principles. (10 Marks)
- 3 a. Define client and its types in cloud computing. (08 Marks)  
b. Explain briefly different levels of connectivity options to access the cloud via Internet. (12 Marks)
- 4 a. Define SaaS. List out its advantages to organization pursuing SaaS. (10 Marks)  
b. Write a note on most popular cloud application. (10 Marks)
- 5 a. Define Meta computer. Explain its components. (10 Marks)  
b. List out of the key functional requirements in Grid computing. Explain briefly layered architecture of a grid. (10 Marks)
- 6 a. Write a note on following: (10 Marks)  
(i) Legion  
(ii) Condor  
(iii) Condor G  
(iv) Nirmod  
(v) NMI.  
b. Explain briefly: (10 Marks)  
(i) Service Oriented Architecture  
(ii) Server side architecture.
- 7 a. Explain briefly cluster programming environment and tools. (12 Marks)  
b. Discuss briefly basic architecture of a cluster. (08 Marks)
- 8 a. Explain briefly various alternative cluster configuration for high availability. (10 Marks)  
b. Define Job Management system. Explain its function. (10 Marks)

\* \* \* \* \*

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.