



USN

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

13MCA551

Fifth Semester MCA Degree Examination, June/July 2019
Cloud Computing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Write a note on the following :
 - i) Internet of thing (IOT) (10 Marks)
 - ii) HPC and HTC systems (10 Marks)
- b. Explain cluster of cooperative computers. (10 Marks)
- 2 a. Describe the three Parallel and Distributed programming models. (06 Marks)
- b. Explain the four layers of power management issues related to energy efficiency in distributed computing. (08 Marks)
- c. Give a brief on P2P systems and overlay networks. (06 Marks)
- 3 a. Discuss the design objectives of computer clusters. (10 Marks)
- b. Explain five levels of virtualization with a diagram. (10 Marks)
- 4 a. Write a note on Private and Public clouds. (04 Marks)
- b. Describe about a generic cloud architecture design. (10 Marks)
- c. Give a brief on Six open challenges is cloud architecture development. (06 Marks)
- 5 a. With a neat diagram, explain a stack of six layers of cloud services. (10 Marks)
- b. Give a brief on any two cloud resource provisioning methods. (04 Marks)
- c. Explain the architecture of Google App Engine (GAE) platform. (06 Marks)
- 6 a. Describe about the data features and databases of grids and clouds. (10 Marks)
- b. Explain Hadoop Distributed File System (HDFS) (10 Marks)
- 7 a. Explain Google File System (GFS) with the architecture diagram. (10 Marks)
- b. Write a note on the following :
 - i) Sector/sphere
 - ii) Amazon Elastic Block store and simple DB. (10 Marks)
- 8 a. Explain Graph theoretic analysis of social networks (10 Marks)
- b. Differentiate between DISC systems and super computers. (06 Marks)
- c. Give a note on Twitter applications. (04 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.