



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS**

**FIFTH SEMESTER – NOVEMBER 2018**

**16PCA5MC04 – CLOUD COMPUTING**

Date: 30-10-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART – A**

**Answer all Questions:**

**10 x 2 = 20**

1. Define cloud computing.
2. Differentiate between grid and distributed computing.
3. Define web OS. Mention the preferred web OS.
4. What are the major differences between web1.0, web2.0 and web 3.0?
5. What is Nimbus? List the main components of Nimbus.
6. Define Google File System. Mention its features.
7. What is Aneka?
8. What are the four states of VM?
9. List the characteristics of cloud deployment model.
10. What is an information card?. State its use

**PART – B**

**Answer all Questions:**

**5 x 8 = 40**

- 11.a. Write short notes on factors for cluster classification.

(OR)

- b. Explain Grid topologies.

- 12.a. Explain the image management in Open Nebula.

(OR)

- b. Illustrate Amazon data processing procedure.

- 13.a. What is Map Reduce? Explain the various steps in Map Reducing.

(OR)

- b. Describe the roles managed by Azure OS.

- 14.a. What are the capabilities of cloud management platform? Mention its tools.

(OR)

- b. Illustrate the Live migration of a VM from one host to another host.

- 15.a. Elucidate the characteristics of public Vs private cloud.

(OR)

- b. Explain the different tests to be carried out in Acceptance testing.

**PART – C**

**Answer any TWO Questions:**

**2 X 20 = 40**

- 16.a. Explain in detail the grid infrastructure security.
  - b. Discuss on the pervasive data cloud.
- 17.a. Explain with necessary diagrams explain HDFS read and write architecture.
  - b. Discuss the five abstraction levels of virtualization.
- 18.a. Explain in detail the cloud service life cycle.
  - b. Explain the NIST cloud computing reference architecture.

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