

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



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

**FIFTH SEMESTER – NOVEMBER 2019**

**17PCA5MC04 – CLOUD COMPUTING**

Date: 02-11-2019

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART – A**

**Answer all Questions:**

**10 x 2 = 20**

1. What is NIST definition of cloud computing?
2. State the use of the symbols used in Hype Cycle.
3. What are the three ways to find the right provider?
4. Define web OS. List few webOS developing languages.
5. Mention the categories of EC2 instances.
6. Define Google File System. Mention its features.
7. What is Aneka? State its use.
8. What are the four states of VM?
9. What is an information card? State its use.
10. What are the key assessment of readiness?

**PART – B**

**Answer all Questions:**

**5 x 8 = 40**

11.a. Explain the following

- i. architecture of 3 VM configuration.
- ii. VM primitive operations.

(OR)

b. Illustrate Grid topologies.

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

(OR)

b. What is web 2.0? Mention its advantages. Differentiate web 1.0,2.0 and 3.0.

13.a. Describe the nine components of open stack.

(OR)

b. Describe the roles managed by Azure OS.

14.a. Explain the capabilities of cloud management platform? Mention few tools.

(OR)

b. Illustrate VM based intrusion detection system.

15.a.Elucidate the producer consumer relationship.

(OR)

b. Explain the hybrid cloud model integration styles and tools.

**PART – C**

**Answer any TWO Questions:**

**2 X 20 = 40**

16.a.Describe in detail the key characteristics of cloud computing..

b.Elaborate in detail about the data integration engineering life cycle.

17.a. Explain apache Hadoop HDFS architecture with necessary diagrams.

b. Discuss in detail the live migration process of a VM from one host to another host.

18.a. Explain in detail the characteristics of cloud deployment models.

b. With neat diagram explain the NIST cloud computing reference architecture.

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