

Total No. of Questions :8]

[Total No. of Printed Pages :2

Roll No

MCA-503**M.C.A. V Semester**

Examination, December 2017

Cloud Computing*Time : Three Hours**Maximum Marks : 70**Note:* Attempt any five questions, each question carry equal marks.

1. a) Define cloud computing. Describe the service models of cloud computing. 7
- b) List the main characteristics of NIST cloud computing reference architecture. 7
2. a) Discuss different ways for cloud service providers to maximize their revenues. 7
- b) What is Platform as a Service means in Cloud Computing? Explain the companies which provides that service. 7
3. a) What are the advantages and disadvantages to plan Public Cloud over Private Cloud? 7
- b) What virtualization platform does the chosen cloud computing service provider offer? Does it enable the enterprise to move resources securely and freely, to and from the cloud. 7

219

[2]

4. a) Discuss the architecture of a computer system before and after virtualization. 7
- b) Explain virtualization support and disaster recovery for compute and storage clouds. 7
5. a) Explain the importance of memory virtualization. 7
- b) Describe how the data security is handled in cloud. 7
6. a) Discuss the security architecture in cloud environment. 7
- b) Illustrate the services that are provided by Window Azure Operating System? 7
7. Illustrate the following programming support of Google App Engine with suitable block schematic. 14
- a) Programming the Google app engine.
- b) Google File System (GFS)
8. a) Explain the architecture and components of Aneka. 7
- b) Explain the various resource provisioning methods. 7

220