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

Examination, November 2018

**Cloud Computing***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) Identify NIST cloud computing reference architecture with a neat schematic diagram. 7  
b) List the advantages and disadvantages of the services on the Cloud. 7
2. a) Explain the applications of the cloud computing. 7  
b) Explain in detail about public, private and hybrid cloud. 7
3. Explain the uses of : 14  
a) Infrastructure as a service  
b) Platform as a service  
c) Software as a service
4. a) Explain in detail about architecture of Map Reduce and how to running a job in Hadoop. 7  
b) Discuss the various levels of virtualization implementation. 7

5. a) Explain the migration of memory, files and network resources in detail. 7  
b) Explain the fundamental functions required for secure cloud computing. 7
6. a) Explain the various security benefits on the cloud. 7  
b) Describe the services offered by Amazon AWS. 7
7. Explain in detail about application level security in 14  
a) SaaS  
b) PaaS  
c) IaaS
8. a) Illustrate the main features of Azure cloud platform. 7  
b) Explain an application of Aneka Maya rendering case study. 7

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