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**MCA DUAL DEGREE**  
**(SEM IX) THEORY EXAMINATION 2020-21**  
**CLOUD COMPUTING**

**Time: 3 Hours****Total Marks: 100****Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt all questions in brief. 2 x 10 = 20**

- a. Define the term project management.
- b. Define Map reduce.
- c. Differentiate between a public and Hybrid cloud.
- d. What are the typical communication used in cloud computing?
- e. Define Apple MonileMe calendar.
- f. List the web-based database applications.
- g. What are the risks of storing data in the cloud?
- h. Give the limitation of SaaS?
- i. What is the use of VMotion tool?
- j. What is Microsoft's azure services platform?

**SECTION B**

**2. Attempt any three of the following: 10 x 3 = 30**

- a. What do you mean by Software as a Service? Discuss its major categories.
- b. Analyze the impact of shared resources and Multi-Tenancy on cloud app.
- c. Explain cloud data security challenges.
- d. Define CPU Virtualization? List the pros and cons of CPU level virtualization.
- e. Explain Amazon Elastic Block Structure (EBS) and Simple DB.

**SECTION C**

**3. Attempt any one part of the following: 10 x 1 = 10**

- (a) What is Database as a Service? Explain the basic functionality of a database and how do they work online.
- (b) Differentiate among public, private and hybrid cloud along with their example. Also explain about the integration of public and private cloud.

**4. Attempt any one part of the following: 10 x 1 = 10**

- (a) Briefly explain how evaluate Web Conferencing Tools. What are the challenges of remote meetings.
- (b) Explain architecture of Google File System.

**5. Attempt any one part of the following: 10 x 1 = 10**

- (a) What do you understand by HadoopDB and Draw architecture of HadoopDB?
- (b) Explain the objectives of Cloud lifecycles. Difference between PaaS and Iaas.

**6. Attempt any one part of the following: 10 x 1 = 10**

- (a) What is utility computing? Explain utility model for cloud web services?
- (b) What do you mean by Amazon web servers? Describe the benefits of AWS.

**7. Attempt any one part of the following: 10 x 1 = 10**

- (a) How to explore on line scheduling and planning? Explain with example.
- (b) Write a short note on:
  - a) Ecualyptus
  - b) Nimbus