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M.E. / M.TECH. DEGREE EXAMINATIONS, MAY 2019

Second Semester

CP18011 – CLOUD COMPUTING TECHNOLOGIES*(Computer Science and Engineering)***(Regulation 2018)****Time: Three Hours****Maximum : 100 Marks**Answer **ALL** questions**PART A - (10 X 2 = 20 Marks)**

1. Define virtual machine monitor.
2. Define virtual clusters and differentiate it with physical cluster.
3. Justify whether hardware assisted supports CPU virtualization.
4. List the various levels of virtualization.
5. How does Cloud provide On-Demand Functionality?
6. List the QoS factors in Cloud computing.
7. Define twister MapReduce.
8. Differentiate HaLoop & Hadoop.
9. What is meant by Data breaching?
10. What are the various threats models?

PART B - (5 X16 = 80 Marks)

11. (a) (i) Explain the characteristics and types of virtualization in detail. **(8)**
(ii) Explain the various steps for live migration of VM and its performance effects. **(8)**

(OR)

- (b) (i) How do you manage the resources in virtual environment? **(10)**
(ii) Differentiate Para from Full Virtualization. **(6)**
12. (a) Explain the OS level virtualization? List the pros and cons of OS level virtualization? **(16)**

(OR)

- (b) (i) Explain the virtualization of CPU, Memory and I/O devices. **(8)**

- (ii) Explain the virtualization for data center automation. (8)
13. (a) (i) Explain in detail about various deployment models in cloud computing. (10)
(ii) Explain the Pros and Cons of cloud computing in detail. (6)
- (OR)**
- (b) (i) Explain the cloud architecture with suitable block diagram. (10)
(ii) Explain cloud Ecosystem in detail and How is it implemented. (6)
14. (a) Explain about the architecture and working model Hadoop framework and with suitable example explain the concept Map Reduce. (16)
- (OR)**
- (b) (i) Explain HDFS in detail and compare it with PVFS. (8)
(ii) With various features differentiate various cloud tools. (8)
15. (a) (i) Explain in detail about how security is implemented in network level in Cloud. (8)
(ii) Explain software-as-a-service security. (8)
- (OR)**
- (b) (i) Explain in detail about virtual machine security. (8)
(ii) Explain the identity management and access control in detail. (8)