

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech., Winter 2017 - 18 Examination

Semester: 2
Subject Code: 03205151
Subject Name: Cloud Computing and Applications

Date: 10/01/2018
Time: 02:00 pm to 04:30 pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 A) Write short note on SISD & MISD architectures in hardware architectures for parallel processing. (05)

B) Explain detailed architecture of virtual machine manager. (05)

C) Classify Hypervisors with diagrams. (05)

Q.2 Answer the following questions. (Attempt any three) (Each five mark) (15)

A) Explain a layered view of a distributed system.

B) What are the challenges and risk to be faced by cloud computing? Describe in short.

C) How cloud computing is defined in the context of distributed datacenters, virtualization, SLA and IT resource consumption? Describe the two building blocks of cloud computing environments.

D) Define cloudonomics. Why there were the need of migration?

Q.3 A) Define cloud security. Write the top five Security Risks of Cloud Computing. (07)

B) Describe in details the hot and cold migration technique. (08)

OR

B) Depict the seven-step model of migration into a cloud with details. (08)

Q.4 A) Write characteristics and definition of Federated clouds/InterCloud. (07)

OR

A) Write the Advantages of live migration. Write basic differences between regular and live migrations. (07)

B) Depict Machine Reference Model in Execution virtualization. (08)