S. D. M. COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Computer Science and Engineering Continuous Assessment Test – 1

MAMS (Model Answers and Marking Scheme)

Q. 1 (co 1)

A. Name 10 workloads suitable for public clouds.

5 M

Please Refer Chap-2, Slide 42 (10*0.5) (Ans Points * Marks)

Application workloads

- -Public facing web pages-
- -Public wiki's, blogs etc
- -Batch processing jobs with limited security requirements
- -Data intensive workloads
- -SaaS applications
- -Online storage/backup/restore solutions
- -Isolated workloads where latency between application components is not an issue
 - B. Why does testing take too long in traditional computing environment? How does cloud computing overcome that challenge?
 3 M
 Please Refer Chap-2, Slide 29 (3*1)
 - procure new hardware and software
 - schedule time with IT configuration
 - Set up the systems
 - Configuration and setup are manual processes
 - Poor governance to poor collaboration
 - Wrongly configured test environments
 - C. Name 4 workloads not suitable for public clouds.

2 M

Please Refer Chap-2, Slide 45 (4*0.5)

Workloads that are not suitable for public clouds

- Workloads composed of multiple, co-dependent services
- High throughput online transaction processing
- Workloads requiring a high level of auditability and accountability
- Q. 2 (co 1)
 - A. Private clouds provide more control. Justify. Please Refer Chap-2, Slide 53 (4*1)

4 M

- •In traditional security model, location implies ownership, which, in turn implies control when security is location-specific.
- •The location, ownership and control are aligned and tightly coupled.

- •Need for strong control and security, usually drive a preference for a private cloud own the resources
- •Government may not allow their application, data to be stored outside its geographic borders`
- •Clouds rely on virtualization and in the public model, this delinks or decouples location, application and data. This reduces the perceived ownership and control.
 - B. What are the different ways in which cloud vendors can promote cloud computing within organization?

6 M

Please Refer Chap-2, Slide 18 (6*1)

- Prioritizing workloads based on business impact and risk
- Maximising business return by identifying applications that are well suited for cloud computing and have high business impact.
- Addressing problematic workloads
- Helping avoid costly implementation issues by identifying potential difficulties during migration
- Mitigating risk of costly implementation delays by identifying potential problems and addressing them before migration
- Avoiding inadequate performance of highly complex and integrated workload
- Q. 3 (co 1)
 - A. Describe the following in 2 or 3 sentences:

6 M

- 1. Community cloud
- 2. Shared private cloud
- 3. Dedicated private cloud

Please Refer Chap-2, Slide 61,62, 63 (3*2)

Community cloud

A community cloud is controlled and used by a **group of organizations** that have shared interest- such as **specific security** requirements or a common mission.

•The members of the community share access to the data and application in the cloud

Shared private cloud

- •This is a shared compute capacity with variable usage based pricing to business units that are based on service offerings, accounts data-centers.
- •It requires **internal profit-center** to take over or buy infrastructure made available through account consolidation.

Dedicated private cloud

- Dedicated private cloud has IT services catalog with dynamic provisioning.
- It depends on standardized SO architecture assets that can be broadly deployed into new and existing accounts and is a lower cost model.
 - B. Compare and contrast public and private clouds.

4 M

Please Refer Chap-2, Slide 80 (4*1)

•A public cloud is a shared cloud computing infrastructure that anyone can access.

- •It provides hardware and virtualization layers that are owned by the vendor and are shared between all customers.
- •It is connected to the public internet and presents an illusion of infinitely elastic resource