

# CBCS Scheme

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BANGALORE - 560 037

16/17SCS/SCE12

## First Semester M.Tech. Degree Examination, June/July 2018 Cloud Computing

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Explain with neat diagram services offered by AWS are accessible from AWS management console. (08 Marks)
- b. How Software-as-a-Service (SaaS) with Google perspective and MicroSoft windows Azure. (08 Marks)

OR

- 2 a. What are the steps to follow to run an application in cloud infrastructure? (04 Marks)
- b. Explain the energy use and ecological impact of large scale data centers. (06 Marks)
- c. What are the objectives of service-and compliance-level agreements? (06 Marks)

### Module-2

- 3 a. Enumerate the challenges for existing cloud applications and new application opportunities. (08 Marks)
- b. With neat diagram, explain a parallel between work flows and programs. (08 Marks)

OR

- 4 a. Explain with neat diagram the Map Reduce philosophy. (08 Marks)
- b. What is the contribution of cloud computing for biology research and social computing? (08 Marks)

### Module-3

- 5 a. What are the 4 physical object simulates the interface for virtualization. (04 Marks)
- b. Explain the layering and interfaces between layers in a computer system. (06 Marks)
- c. What is the role of virtual machines and virtual machine monitors in cloud resource virtualization? (06 Marks)

OR

- 6 a. Distinguish between full virtualization and para virtualization. (08 Marks)
- b. Explain the optimization of network virtualization in Xen 2.0. (08 Marks)

### Module-4

- 7 a. What are the five classes grouped for cloud resource management policies. (04 Marks)
- b. With neat diagram explain stability of a two-level resource allocation architecture. (06 Marks)
- c. Explain the co-ordination of specialized autonomic performance managers. (06 Marks)

OR

- 8 a. What are three scheduling algorithms for computing clouds? Explain fair queuing algorithm. (08 Marks)
- b. Explain the parameters used for scheduling subject to dead-lines. (08 Marks)

### Module-5

- 9 a. Explain the top security concerns for cloud users. (08 Marks)
- b. What is security of virtualization? Explain the security risks posed by shared images. (08 Marks)

OR

- 10 a. How to connect clients to cloud instances through firewalls. Illustrate the instance menu allows the user to select from existing AMI's. (08 Marks)
- b. What are the motivation behind the cloud based simulation of a distributed trust algorithm. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.