

# CBCS Scheme

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16/17SCN/SIT22

## Second 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. What is cloud computing? Explain the structure of three delivery models of cloud computing. (08 Marks)
- b. Explain the components of Microsoft windows Azure cloud service. (08 Marks)

OR

- 2 a. Explain the services of google in cloud computing environment in terms of SAAS. (05 Marks)
- b. Explain the components of open source cloud platform: Eucalyptus. (06 Marks)
- c. What is service level agreement? Explain its objectives. (05 Marks)

#### Module-2

- 3 a. Discuss the challenges of cloud computing. (06 Marks)
- b. What is workflow? Explain with neat diagram differences between lifecycle of workflow and computer program. (10 Marks)

OR

- 4 a. Explain the Zookeeper coordination service. (06 Marks)
- b. Write and explain Map Reduce function. (10 Marks)

#### Module-3

- 5 a. What is virtualization? How virtualization simulates the interface for physical object? (05 Marks)
- b. What is virtual machine? Differentiate between process virtualization and system virtualization machine. (05 Marks)
- c. Differentiate between full virtualization and para-virtualization. (06 Marks)

OR

- 6 a. Explain the case study of XEN hyperwiser with suitable diagrams. (08 Marks)
- b. Discuss the performance comparison between native linux system with openVz and XEN systems. (08 Marks)

#### Module-4

- 7 a. Explain cloud resource management policies. (08 Marks)
- b. Discuss two level resource allocation architecture. (08 Marks)

OR

- 8 a. Write and explain ASCA algorithm. (08 Marks)
- b. List rules of start time pair queuing. (04 Marks)
- c. Differentiate horizontal and vertical scaling. (04 Marks)

#### Module-5

- 9 a. Explain the security risks faced by cloud users. (08 Marks)
- b. Write a note on virtual machine security. (08 Marks)

OR

- 10 a. What is firewall? Explain its generations. (08 Marks)
- b. Write a note on : How to use S<sub>3</sub> in JAVA? (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.