



CBCS SCHEME

18SCN31

Third Semester M.Tech. Degree Examination, Dec.2019/Jan.2020

Cloud Computing

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. List and explain service / compliance level agreements with respect to cloud computing. (10 Marks)
- b. Explain three types of clouds and delivery models with a neat diagram. (10 Marks)

OR

- 2 a. Explain the core components of Azure with a neat diagram. List the various services offered by Google. (10 Marks)
- b. What is Vendor Lock – in problem? Explain how this problem is solved with RAID – 5 systems. (10 Marks)

Module-2

- 3 a. What is a Workflow? Explain the life cycle of the workflow by comparing with a computer program. (10 Marks)
- b. Describe the categories of existing cloud applications and opportunities for new application. Discuss i) AND Split ii) XOR merge iii) Multiple merge workflow patterns. (10 Marks)

OR

- 4 a. With a neat diagram, explain the MapReduce programming model. (10 Marks)
- b. Explain working of Grep The Web application with a neat diagram. (10 Marks)

Module-3

- 5 a. Define Virtual machine. Explain with block diagram different types of Virtual machines. (10 Marks)
- b. Explain Layering and Interfaces in virtualization, with a neat diagram. (10 Marks)

OR

- 6 a. List and explain the problems faced by virtualization of X86 architecture. (10 Marks)
- b. Explain the optimization of network virtualization in Xen 2.0 with the help of a neat diagram. (10 Marks)

Module-4

- 7 a. Explain policies and mechanisms for resource management. (10 Marks)
- b. Explain two – level resource allocation architecture with a neat diagram. (10 Marks)

OR

- 8 a. With a schematic diagram, explain ASCA combinatorial Auction Algorithm. (10 Marks)
- b. Discuss resource management and dynamic application scaling. (10 Marks)

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.

Module-5

- 9 a. With a neat diagram, explain virtual security services provided by VMM. (10 Marks)
b. Brief the steps to install hadoop on eclipse and write the pre – requisites and software packages. (10 Marks)
- OR**
- 10 a. Explain the security risks posed by a management OS with a neat diagram. (10 Marks)
b. Explain the process of connecting clients to cloud instances through firewalls. (10 Marks)

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