



CBCS SCHEME

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17CS742

Seventh Semester B.E. Degree Examination, July/August 2022 Cloud Computing and Its Applications

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What is cloud computing? Discuss the characteristics and benefits of cloud computing. (08 Marks)
- b. Discuss different cloud computing platforms and technologies. (06 Marks)
- c. Discuss distributed systems in brief. (06 Marks)

OR

- 2 a. Explain hardware level virtualization with a neat diagram. (08 Marks)
- b. Explain Pros and Cons of virtualization. (06 Marks)
- c. Explain full virtualization binary translation with a neat diagram. (06 Marks)

Module-2

- 3 a. With a neat diagram, explain Paas reference implementation. (08 Marks)
- b. Discuss various types of clouds with required diagram and give their suitability in real world applications. (12 Marks)

OR

- 4 a. With a neat diagram, explain private cloud deployment mode and public cloud deployment mode of Aneka. (10 Marks)
- b. Explain Aneka service model and service life cycle with a neat diagram. (06 Marks)
- c. Discuss Aneka management tools in brief. (04 Marks)

Module-3

- 5 a. Discuss the thread APIs in detail. (08 Marks)
- b. Compare and discuss Aneka threads Vs Common threads with thread life cycle in detail. (12 Marks)

OR

- 6 a. Discuss different computing categories for task computing. (06 Marks)
- b. Write a note on framework for task computing. (06 Marks)
- c. Explain abstract model of a work flow system with a neat diagram. (08 Marks)

Module-4

- 7 a. Discuss high performance distributed file system and storage clouds in detail. (08 Marks)
- b. With a neat diagram, explain google big table architecture. (08 Marks)
- c. Discuss the challenges in data Intensive computing. (04 Marks)

OR

- 8 a. Discuss the variations and extensions of Map-Reduce in brief. (08 Marks)
- b. Discuss the various alternatives of Map-Reduce. (06 Marks)
- c. Write a short note on : (i) Apache Carrandra (ii) Hadoop Hbare (06 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. Discuss the various compute services provided by the AWS. (10 Marks)
b. What is google App engine? Explain google App engine platform architecture with a neat diagram. (10 Marks)

OR

- 10 a. Write a note on: (i) Protein structure prediction and (ii) Satellite image processing using cloud. (12 Marks)
b. Explain Animato reference architecture with a neat diagram. (08 Marks)

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