

CBCS SCHEME

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18AI734

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 Cloud Computing and Visualization

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. With the neat diagram, explain cloud computing at amazon. (10 Marks)
b. With necessary diagrams, explain cloud computing delivery model and services. (10 Marks)

OR

- 2 a. Explain the following in detail:
(i) Ethical issues in cloud computing
(ii) Major challenges faced by cloud computing (10 Marks)
b. With necessary statistics, explain energy used and ecological impact of large – scale data centres. (10 Marks)

Module-2

- 3 a. Define work flow. Explain workflow models and life cycle of workflow with neat diagrams. (10 Marks)
b. Explain 200 keper coordination service with neat diagram. (10 Marks)

OR

- 4 a. Explain organization of the GrepTheWeb applications. (10 Marks)
b. Explain how cloud computing plays important role in biology research. (10 Marks)

Module-3

- 5 a. What is cloud resources virtualization? Explain Layering and Virtualization with neat diagrams. (10 Marks)
b. Define and explain virtual machines in detail with diagrams. (10 Marks)

OR

- 6 a. Explain full virtualization and paravirtualization in detail. (10 Marks)
b. With a diagram explain the darker side of virtualization. (10 Marks)

Module-4

- 7 a. Explain cloud resources management policies by explaining its five classes. (10 Marks)
b. Explain stability of two level resource allocation architecture. (10 Marks)

OR

- 8 a. Explain feedback control based on dynamic thresholds. (10 Marks)
b. Explain scheduling algorithms for computing clouds. (10 Marks)

Module-5

- 9 a. With diagram explain cloud security risks. (10 Marks)
b. Explain privacy and privacy impact assessment. (10 Marks)

OR

- 10 a. Explain virtual machine security in detail with necessary diagram. (10 Marks)
b. Explain security risks posed by a management OS. (10 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.