18CS643

(10 Marks)

(10 Marks)

Sixth Semester B.E. Degree Examination, Dec.2024/Jan.2025

Max. Marks: 100

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

| | | Module-1 | |
|---|----|--|-----------------|
| 1 | a. | What is cloud computing? Explain its characteristics and challenges. | (10 Marks) |
| • | b. | With neat diagram, explain hardware virtualization reference model. | (10 Marks) |
| 1 | 0. | With near diagram, explanation | |
| | | OR | |
| 2 | a. | Explain taxonomy of virtualization technique with neat diagram. | (10 Marks) |
| _ | b. | Explain VMware workstation architecture with neat diagram. | (10 Marks) |
| | υ. | Explain Vivivate workstation are interesting | |
| | | Module-2 | |
| 3 | 0 | With neat diagram, explain infrastructure as a service reference implementation. | (10 Marks) |
| 3 | a. | Explain Aneka framework overview with neat diagram. | (10 Marks) |
| | b. | Explain Alleka hamework overview with heat diagram. | Control |
| | | OR | |
| 4 | _ | Describe platform as a service reference model with neat diagram. | (10 Marks) |
| 4 | a. | Explain 3 types of services that are hosted inside the Aneka container. | (10 Marks) |
| | b. | Explain 5 types of services that are nosted inside the rineral container. | |
| | | Module-3 | |
| _ | | | (10 Marks) |
| 5 | a. | Discuss techniques for parallel computation with thread. | (10 Marks) |
| | b. | Explain abstract model of a workflow system. | (10 1/11/11/15) |
| | | On | |
| | | OR | (10 Marks) |
| 6 | a. | Compare local thread and Aneka thread life cycles with diagram. | |
| | b. | Explain the features provided by Aneka for the execution of parameter sweep app | (10 Marks) |
| | | | (10111111) |
| | | Module-4 | |
| _ | | With neat diagram, explain Amazon Dynamo architecture. | (10 Marks) |
| 7 | a. | Write short note on : (i) Google Big table (ii) Apache Cassandra | (10 Marks) |
| | Ь. | Write short note on: (i) Google Big table (ii) Apache Cassandra | (|
| | | OR | |
| • | | | (10 Marks) |
| 8 | a. | Explain MapReduce computation workflow with neat diagram. | (10 Marks) |
| | b. | With neat diagram, explain Aneka MapReduce data file format. | (10 1/14/143) |
| | | Medulo 5 | . (|
| | | Module-5 | (10 Marks) |
| 9 | a. | Explain Google App engine platform architecture with neat diagram. | (10 Marks) |
| | b. | Write short note on: (i) Url fetch (ii) Memcache | (IU 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.

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Write short note on: (i) Blobs

Explain Microsoft Windows Azure platform architecture with neat diagram.

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(ii) Azure cache.