Roll No. 22 EE ATTO51

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51N0404

## 51N0404

B.TECH. V SEMESTER (NEW SCHEME)
MAIN/BACK EXAMINATION 2024-25
COMPUTER SCIENCE & ENGINEERING

5CS4-04 - Cloud Computing and DevOps Tools

[5CS4-04, 5IT4-04) Common to CSE & IT

Time: 3 Hours]

[Max. Marks: 70

[Min. Passing Marks:

## **Instructions to Candidates:**

**Part-A:** Short Answer Type Questions (up to **25** words)  $10 \times 2 = 20$  marks. All 10 questions are compulsory.

**Part-B:** Analytical/Problem Solving questions  $5 \times 4 = 20$  marks. Candidates have to answer 5 questions out of 7.

**Part-C**: Descriptive/Analytical/Problem Solving questions  $3 \times 10$  marks = 30 marks. Candidates have to answer 3 questions out of 5.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of the following supporting materials is permitted during examination. (Mentioned in form no. 205).

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	Part-A
Q. 1.	What do you mean by cloud computing?
Q. 2.	What are the benefits of the virtualization?
Q. 3.	What are the major advantages of the cloud computing?
Q. 4.	What are the design principles of the cloud computing?
Q. 5.	What are the risk mitigation of the cloud computing?
Q. 6.	What do you mean by virtualization of cpu?
Q. 7.	Write down any two type of SLA.
Q. 8.	What are the services models of cloud computing?
Q. 9.	What is Docker?
Q. 10.	What is microservices of cloud computing?
	Part-B
Q. 1.	Explain the enbiling technology.
Q. 2.	What are the ethical issue in cloud computing? Explain in details.
Q. 3.	Write in brief implementation level of virtualization.
Q. 4.	Discuss the cloud reference model.
Q. 5.	Explain the cloud security policy implementation.
Q. 6.	Explain the business continuity and disaster recovery.

Q. 7. How to model microservices? Explain in brief.

## Part-C

- Q. I. Explain the characteristics and components of cloud computing.
- Q. 2. Explain the architectural design of compute and storage clouds.
- Q. 3. What are the SLA-service level agreements? Explain in details.
- Q. 4. Explain the phases of microservices.
- Q. 5. What is kubemetes and its key feature? Write its advantages and disadvantages.

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