

Roll No.

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51N0404

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**B.TECH. V SEM (NEW SCHEME) MAIN
ACAD. SESSION 2023-24
COMPUTER SCIENCE AND ENGINEERING-V
AND OTHER BRANCHES
(5CS4-04) - Cloud Computing and DevOps Tools
Common To CS & IT**

Time : 3 Hours]

[Maximum 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 3×10 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).

1 _____

2 _____

Part-A

10×2=20

1. What is Docker.
2. Write down any two type of SLA.
3. What are the major advantages of the cloud computing ?

4. What are the design principles of the cloud computing ?
5. What is microservices of cloud computing.
6. What are the services models of cloud computing ?
7. What are the benefits of the virtualization ?
8. What is virtualization of cpu ?
9. What is cloud computing ?
10. What are the risk mitigation of the cloud computing ?

Part-B

5×4=20

1. Discuss the cloud reference model.
2. What are the ethical issue in cloud computing ? Explain in details.
3. Explain the business continuity and disaster recovery.
4. Explain the enabling technology.
5. How to model microservices ? Explain in brief.
6. Write in brief implementation level of virtualization.
7. Explain the cloud security policy implementation.

Part-C

3×10=30

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