

Hall Ticket Number :

R-15

Code: 5G471

IV B.Tech. I Semester Supplementary Examinations August 2020

Cloud Computing
(Common to CSE & IT)

Max. Marks: 70

Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 14 = 70 Marks)

UNIT-I

1. a) Differentiate network centric computing with network centric content, write any three essential characteristics of network centric computing. 7M
- b) Illustrate the usage of cloud service models, by considering suitable applications. 7M

OR

2. a) Discuss the working of Amazon cloud with a neat block diagram. 7M
- b) Justify the vendor lock-in is one of the main limitations of cloud computing, discuss the methods available to overcome this limitation. 7M

UNIT-II

3. a) Give the palette of various architectures available for application development. 7M
- b) Illustrate the use of cloud services in healthcare industry. 7M

OR

4. a) Discuss in detail the working of Zoo-keeper model for resource coordination. 7M
- b) Illustrate the use of cloud services in Education industry. 7M

UNIT-III

5. a) Discuss the role and importance of Virtualization in cloud computing industries. 7M
- b) Explain various types of virtualization with their salient features. 7M

OR

6. a) Differentiate full and para virtualization, and their applications. 7M
- b) Explain the working of Xen hypervisor with a neat diagram. 7M

UNIT-IV

7. a) Define control theory. How it is used in the cloud services? 7M
- b) Explain in detail the working of feedback control based on dynamic thresholds. 7M

OR

8. a) Give the principle of working of start time fair queuing and borrowed virtual time. 7M
- b) Explain the working of cloud scheduling subject to deadlines. 7M

UNIT-V

9. a) Explain any two modern storage technologies available for cloud storage. 7M
- b) Discuss the significance of NOSQL databases, and also provide the relevance in today's Big data applications. 7M

OR

10. a) Define cloud security, discuss why cloud security is still a concern. 7M
- b) Write elaborately the role of trust-based security for cloud applications. 7M

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IV B.Tech. I Semester Supplementary Examinations August 2020

Object Oriented Analysis and Design

(Common to CSE & IT)

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)

UNIT-I

1. a) What is a model? Discuss the principles and rules of UML 7M
- b) Discuss different things in UML 7M

OR

2. a) Discuss Software development life cycle with neat diagram 7M
- b) Identify different relationships in UML, explain with examples 7M

UNIT-II

3. a) What is a Classifier? How it is helpful in designing a Template 7M
- b) Explain common modeling techniques for Class diagrams 7M

OR

4. a) What is package? Discuss different packages and their relation ships 7M
- b) How we can model static and dynamic types of Interfaces 7M

UNIT-III

5. a) Distinguish between interaction diagrams, Explain with examples 7M
- b) Justify the importance of activity diagram in UML and Explain with example 7M

OR

6. What is use case diagram? Discuss and Draw use case diagram for ATM 14M

UNIT-IV

7. a) What is meant by a signal? How we can model families of signals? 7M
- b) Draw a state machine diagram for different objects in library information system 7M

OR

8. a) Discuss the concept of Inter process communication 7M
- b) Briefly Define Events, processes and threads 7M

UNIT-V

9. a) What are deployment diagrams? Explain with example 7M
- b) Write short note on nodes 7M

OR

10. Draw and explain component diagrams and how these component are helpful in designing Interfaces and APIs 14M
