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)

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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 todays 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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Hall Ticket Number :										

R-15

Code: 5G173

IV B.Tech. I Semester Supplementary Examinations August 2020

Industrial Management & Entrepreneurship

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours

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

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UNIT–I

1. Define Management. Describe the functions of Management.

OR

2. What is Marketing? Explain the functions of marketing.

UNIT–II

3. Explain various types of production systems with its merits and demerits.

OR

4. Explain about EOQ and ABC analysis in inventory control.

UNIT–III

5. Explain the concept of time value of money with your own example.

OR

6. What is Depreciation? Explain any two methods of Depreciation.

UNIT–IV

7. What is Recruitment? Explain various sources of recruitment with its merits and demerits.

OR

8. Explain about various methods of performance appraisal.

UNIT–V

9. What is Entrepreneurship? Explain about various characteristics of Entrepreneur.

OR

10. What is Plant design? Explain various types of Plant designs.

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Hall Ticket Number :										

R-15

Code: 5G478

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)

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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

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Hall Ticket Number :										

R-15

Code: 5G171

IV B.Tech. I Semester Supplementary Examinations August 2020

Big Data & Data Analytics

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours

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

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UNIT–I

1. a) Discuss the Best Practices for Big data analytics**.** 7M
   b) Compare and contrast the grid computing and volunteer computing. 7M

OR

2. a) Explain the evaluation of Big Data. 5M
   b) Describe the basic building blocks of Hadoop with a neat sketch 9M

UNIT–II

3. a) Why is a Block in HDFS So Large? Explain the coherency model 7M
   b) With the help of a neat diagram, explain the MapReduce data flow with a single reduce task 7M

OR

4. a) Give a brief note on File-Based Data Structures. 7M
   b) Discuss the internal structure of a sequence file with block compression. 7M

UNIT–III

5. a) Explain the Anatomy of a MapReduce Job Run. 7M
   b) What are the differences between the Input Formats and Output Formats? Explain 7M

OR

6. a) How Hadoop runs a MapReduce job? Explain 7M
   b) Write the Generic Options Parser and Tool Runner options. 7M

UNIT–IV

7. a) Explain the Command Line Interface to HDFS 7M
   b) Discuss the User-Defined Streaming Counters. 7M

OR

8. a) List and explain the features of MapReduce. 7M
   b) Elaborate the typical two-level network architecture for a Hadoop cluster. 7M

UNIT–V

9. a) Explain the Hive Clients with architecture. 7M
   b) Write a short note on Hive QL. 7M

OR

10. With neat sketch and explain about the configuration of CLI client and WI client while interacting with HIVE. 14M

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