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R-15

Code: 5G171

IV B.Tech. I Semester Regular Examinations November 2018

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)

UNIT-I

- 1. a) What is BigData and why does it matters? Explain. 7M
- b) Explain the best practices for Big data Analytics in brief. 7M

OR

- 2. a) Justify Your answer " Is Map Reduce can be seen as an Complement to an RDBMS"?Explain. 7M
- b) Define Hadoop and compare with volunteer Computing. 7M

UNIT-II

- 3. a) Explain the part played by Map Reduce in analyzing a given data set with an example. 7M
- b) Outline the Concept of Hadoop Streaming with an example. 7M

OR

- 4. a) Explain the concept of Data flow and splits with an example. 7M
- b) What is the usage of a Combiner function and how to specify it? Explain. 7M

UNIT-III

- 5. a) Explain in detail how Map Reduce in Hadoop works. 7M
- b) Explain the anatomy of classical Map Reduce Job run in brief. 7M

OR

- 6. Explain the YARN in detail 14M

UNIT-IV

- 7. a) Compare and Contrast Task Counters with Job Counters. 7M
- b) With an example explain about Map side joins. 7M

OR

- 8. a) Describe the three-step Kerberos ticket exchange protocol in detail. 7M
- b) Write about file system image and Edit log. 7M

UNIT-V

- 9. a) Explain the Execution modes of Pig? How to run a pig program. 7M
- b) Describe about Schema and Schema merging in Pig. 7M

OR

- 10. Explain how to create tables and different storage formats that Hive offers with suitable examples in detail. 14M

Hall Ticket Number :

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R-15

Code: 5G471

IV B.Tech. I Semester Regular Examinations November 2018

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) Discuss various characteristics of network-centric computing and network-centric content. 7M
- b) By considering any service providers, give an account of usefulness of cloud computing services for today's world. 7M

OR

2. a) List and discuss major challenges faced by cloud computing services. 7M
- b) With a neat block-diagram explain the working of Microsoft Azure cloud services. 7M

UNIT-II

3. a) Propose a cloud application for management of health care industry. 7M
- b) Discuss the Zookeeper, as a coordinator based on a state machine model. 7M

OR

4. a) Discuss any three HPC applications which can be developed over cloud computing model. 7M
- b) Illustrate the working of MapReduce programming by considering an example. 7M

UNIT-III

5. a) Define virtualization. Why virtualization is an important requirement in cloud computing? 7M
- b) Write the block diagram of Xen hypervisor, and explain its working. 7M

OR

6. a) Explain hardware support for virtualization. 7M
- b) Compare full and para-virtualization models with respect to merits and demerits 7M

UNIT-IV

7. a) Discuss the working of two-level control architecture. 7M
- b) With the utility function U^i give the working of utility-based model for cloud-based web services. 7M

OR

8. a) Explain the process of coordination of specialized autonomic performance managers. 7M
- b) What are combinational auctions? Give the algorithm for pricing and allocation. 7M

UNIT-V

9. a) Compare and contrast storage models, file systems and databases. 7M
 - b) Define trust. Explain the importance of trust in cloud computing services and its types. 7M
10. a) Write GPFS configuration, and explain the working of general parallel file systems. 7M
 - b) Discuss various threats and risks for Virtualization in cloud computing. 7M

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IV B.Tech. I Semester Regular Examinations November 2018

Enterprise Programming

(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) Explain the web server XAMPP? 7M
- b) Explain the web server WAMP? 7M

OR

2. a) Explain programming in a web environment XAMPP? 7M
- b) Explain programming in web environment WAMP? 7M

UNIT-II

3. a) Explain Arrays in PHP with Example? 7M
- b) Explain Functions in PHP with Example? 7M

OR

4. a) Explain Extending class in PHP with Example? 7M
- b) Explain creation of instances using constructors in PHP? 7M

UNIT-III

5. a) Discuss using of COOKIES with example? 7M
- b) Discuss using of sessions with example? 7M

OR

6. a) Explain Validating form input in PHP? 7M
- b) Explain preventing multiple submissions of a form? 7M

UNIT-IV

7. a) Explain MVC Architecture? 7M
- b) Explain basic database concepts? 7M

OR

8. a) Explain HTTP Request and Response fundamentals in AJAX? 7M
- b) Explain XML HTTP Request Methods and properties? 7M

UNIT-V

9. a) Explain client driven communication in AJAX & PHP? 7M
- b) Explain server side processing in AJAX & PHP? 7M

OR

10. a) Explain the GET Vs POST passing values in PHP & AJAX? 7M
- b) Explain the Form validation? 7M

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R-15

Code: 5G173

IV B.Tech. I Semester Regular Examinations November 2018

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)

UNIT-I

1. a) Management is science and art'. Explain. 7M
- b) Explain the contributions of F. W. Taylor to the evolution of management thoughts. 7M

OR

2. State the different types of organizations. Explain any three of them stating their advantages and disadvantages. 14M

UNIT-II

3. Explain the methods of production with examples. 14M

OR

4. a) Describe in detail ABC analysis. State its applications. 7M
- b) A company uses annually 50,000 units of an item each costing Rs. 1.20. Each order costs Rs. 45 and inventory carrying costs 15% of the annual average inventory value. Find (i) EOQ (ii) Total annual cost (iii) Time between orders 7M

UNIT-III

5. What do you mean by Capital budgeting in financial management? Explain methods of Capital budgeting? 14M

OR

6. Describe the Sum of Years method of depreciation using numerical example. 14M

UNIT-IV

7. a) Write the differences between On job training and Off job training. 6M
- b) What is performance appraisal? List the objectives and steps involved in performance appraisal. 8M

OR

8. a) Explain the methods of merit rating with examples. 7M
- b) As a HR manager how will you use positive motivation and negative motivation methods? 7M

UNIT-V

9. a) Write short notes on "social responsibilities" of an entrepreneur. 7M
- b) Differentiate between entrepreneur and manager. 7M

OR

10. Explain the steps in process design and plant design. 14M

Hall Ticket Number :

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R-15

Code: 5G478

IV B.Tech. I Semester Regular Examinations November 2018

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) Describe the importance of modeling. What are its principles? 7M
- b) What are building blocks of UML? Explain the kinds of relationships in UML 7M

OR

2. a) What are the approaches to model a software system? Explain Object oriented model. 7M
- b) Explain briefly conceptual model of UML. 7M

UNIT-II

3. a) What is classifier? Explain kinds of classifiers. 7M
- b) Explain the difference between forward and reverse engineering. 7M

OR

4. a) What is generalization? Illustrate with a neat diagram. 7M
- b) Explain object diagram and its properties. 7M

UNIT-III

5. a) What is an interface? Explain links and association with a diagram. 7M
- b) Define use case model. Explain use case diagram for a ATM machine. 7M

OR

6. a) Describe sequence diagram with a neat diagram. 7M
- b) Discuss the guidelines for the activity model. 7M

UNIT-IV

- 7 a) What is a signal? State the procedure to model families of signals. 7M
- b) Explain transition and self-transition with a diagram. 7M

OR

8. a) What is a state machine? Illustrate with a neat diagram. 7M
- b) Explain the importance of event trigger. 7M

UNIT-V

9. a) Show the common use of component diagram. 7M
- b) Explain how to organize nodes. 7M

OR

10. a) What is a node? Explain contrast node with components. 7M
- b) Categories the stereotypes that apply to components. 7M

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R-15

Code: 5G175

IV B.Tech. I Semester Regular Examinations November 2018

Semantic Web and Social Networks

(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)

UNIT-I

1. a) Illustrate how is the World Wide Web managing knowledge and empowering the Information Revolution? 7M
- b) What Is Machine Intelligence? How far is AI from reaching human-level intelligence? 7M

OR

2. a) Summarize how the number of nodes on the Web creates computational complexity that limits the ability to develop logic proof systems. 7M
- b) Describe the importance of Resource Description Framework in semantic web. 7M

UNIT-II

3. a) Explain RDF schema. 7M
- b) What are the elements of RDF triple? Explain with an example? 7M

OR

4. a) Construct the unique features of RDF/OWL. 7M
- b) Compare Entity/Relationship model and the relational model 7M

UNIT-III

5. a) What is ontology engineering? How ontologies are constructed? Explain in detail? 7M
- b) Distinguish top-down and bottom-up approach in the ontology development. 7M

OR

6. a) Classify three fields contributes to knowledge representation in ontology sharing and merging. 7M
- b) Generate three mapping approaches for combing distributed and heterogeneous ontologies. 7M

UNIT-IV

7. a) Briefly explain the following semantic web applications 7M
 - i. Semantic search
 - ii. Knowledge Base
 - iii. e-learning
- b) Explain Google's Page Rank algorithm? 7M

OR

8. a) Discuss how agents send and receive messages in XML-based web services. 7M
- b) Discuss the five steps required for creating OWL-S based Ontology for a Web Service 7M

UNIT-V

9. a) Explain electronic sources for network analysis? 7M
- b) Discuss about Web-based networks 7M

OR

10. a) Discuss about blogs and online communities? 7M
- b) Describe the generic architecture of Semantic Web applications with social network features. 7M
