R-17

Code: 7G171

IV B.Tech. I Semester Regular Examinations February 2021
Big 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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			Marks	CO	Blooms Level

UNIT–I

			Marks
1.	a)	Describe the Technologies used in the Big Data	7M
	b)	Explain the Evolution of Big Data	7M

OR

| 2. | a) | Compare and contrast map-reduce with volunteering computing | 7M |
| | b) | Describe any three Big Data real world examples | 7M |

UNIT–II

| 3. | a) | What do you understand by HDFS? Explain its components with neat diagrams. | 10M |
| | b) | With an example explain how Unix tools are used for analyzing the data. | 4M |

OR

| 4. | a) | Explain how different techniques are used to preserve data integrity in Hadoop I/O | 10M |
| | b) | Why do serialization and deserialization is required in Hadoop. | 4M |

UNIT–III

| 5. | | Illustrate with a neat sketch how Hadoop runs a MapReduce job using the classic framework | 14M |

OR

| 6. | a) | Explain, how a problem is decomposed into mapReduce job. | 7M |
| | b) | How does the job execution progress is reported in Hadoop. | 7M |

UNIT–IV

| 7. | a) | How does a Hadoop cluster bench marking is done | 7M |
| | b) | Give a brief note on map side join and reduce side join with an example | 7M |

OR

| 8. | a) | Distinguish between task counters and job counters | 7M |
| | b) | Explain the shuffle and sort phase in mapReduce | 7M |

UNIT–V

| 9. | a) | Explain different execution modes of Pig. | 4M |
| | b) | Describe the architecture of Pig and explain different commands used in it. | 10M |

OR

| 10. | a) | Distinguish between Pig and Hive | 7M |
| | b) | Compare Hive with traditional databases | 7M |

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IV B.Tech. I Semester Regular Examinations February 2021
Disaster Management
(Common to All Branches)

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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			Marks	CO	Blooms Level

UNIT–I

1.	a)	Explain briefly about how hazards can become a disaster and Summarize the concept of disaster.	8M	CO1	L2
	b)	Illustrate the differences between hazard and disaster.	6M	CO1	L2

OR

2.		Explain the following terms in an uneducated person: 　a) Disaster 　b) Risk 　c) Vulnerability 　d) Hazard	14M	CO1	L1

UNIT–II

3.	a)	Illustrate the effects of the volcanoes on the environment. List out various materials comes out from volcanic eruptions.	7M	CO2	L3
	b)	State epicenter and focus? Create with a neat diagram? Based on depth how many type types of earthquake are classified.	7M	CO2	L3

OR

4.	a)	Write a short note on earthquakes. List out various materials comes out from volcanic eruptions	7M	CO2	L5
	b)	Demonstrate natural disaster and manmade disaster, what are the effects of disasters on environmental health facilities and services.	7M	CO2	L5

UNIT–III

5.	a)	Discuss the role and functions of a Disaster Manager, health effects of global environmental change.	7M	CO3	L3
	b)	Explain urban disasters and climate change with suitable examples.	7M	CO3	L3

OR

6.		List different disaster impacts and explain any four with the help of a case study.	14M	CO3	L2

UNIT–IV

7.	a)	What are the steps involved in risk communication?	7M	CO4	L4
	b)	What are the drought control measures adopted across the globe?	7M	CO4	L4

OR

8.	a)	Illustrate various mitigation measures to be taken at the time of earthquakes.	7M	CO4	L3
	b)	Elaborate the activities of panchayat raj institutions during disaster.	7M	CO4	L3

UNIT–V

9.	a)	Discuss the important steps in relief distribution.	5M	CO5	L3
	b)	Sustainability, comment on this term and generally write how you can apply sustainability in your daily life with at least 5 examples.	9M	CO5	L3

OR

10.	a)	Identify the different types of rehabilitation post disaster.	6M	CO5	L5
	b)	Discuss about the positive and negative impacts of construction of dams.	8M	CO5	L5

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Code: 7G172

IV B.Tech. I Semester Regular Examinations February 2021
Enterprise Programming
(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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| | | Marks | CO | Blooms Level |

UNIT–I

1. a) Write short notes on
      (i) HTTP Response   (ii)WAMP Server
   b) Explain in detail about the anatomy of a PHP page?

OR

2. What is HTTP? What are HTTP request and response parameters? Discuss on the limitations of HTTP.

UNIT–II

3. Explain in detail about GET and POST method in PHP with appropriate case studies?

OR

4. What is a session? How to create, destroy and unset session variables on web page

UNIT–III

5. a) Explain the function and syntax of foreach ( ) method in PHP
   b) Create a PHP script that create and retrieve a Cookie.

OR

6. How to prevent multiple form submission on multiple clicks in PHP. Explain using an example

UNIT–IV

7. Design a web page which can accept user name and password as input and authenticate the web page from database using PHP
   program and MySQL for query verification

OR

8. a) Create a student database and connect to PDO using PHP for retrieving student attendance and marks.
   b) Write a program by using mysqli_connect().

UNIT–V

9. a) Explain in detail about Cross-Browser Usage?
   b) Discuss on Web Application Environment with an example.

OR

10. Using appropriate examples discuss on how Ajax handles Form validation procedures

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Code: 7GA71

IV B.Tech. I Semester Regular Examinations February 2021
Human Resource Management
(Common to All Branches)

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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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	Define the nature and scope of Human Resource Management	7M	1, 2	1
	b)	What are the different functions of HRM	7M	1, 2	4
		OR			
2.	a)	What is HRM? Explain about Competitive Challenges influencing HRM.	7M	1, 2	4
	b)	Differentiate Personnel Management and HRM	7M	1, 2	5
		UNIT–II			
3.	a)	Define HRP. Explain HRP need and importance in an organization.	7M	6, 7, 8	1
	b)	Explain about different Barriers to HRP.	7M	6, 7, 8	2
		OR			
4.	a)	Define job analysis. Explain the different methods of JE and its process	7M	6, 7, 8	1
	b)	Define Job Design and its importance in an organization.	7M	6, 7, 8	1
		UNIT–III			
5.	a)	If you are the HR Manager, what type of recruiting methods is using to recruit for Manufacturing and for services industry?	7M	1, 4,	2
	b)	Define process of recruitment.	7M	1, 4,	1
		OR			
6.	a)	What is recruitment? List out the process of recruitment.	7M	1, 4,	4
	b)	"A well-thought-out orientation program is essential for all new employees, whether they have experience or not". Explain why you agree or disagree with the above statement.	7M	1, 4,	2
		UNIT–IV			
7.	a)	List and briefly explain about Training Methods	7M	4, 5	1
	b)	What is the need of training an employee in an organization?	7M	4, 5	4
		OR			
8.	a)	Is an employee should train. If yes list out the advantages and disadvantages of training.	7M	4, 5	4
	b)	Define different career stages.	7M	4, 5	1
		UNIT–V			
9.	a)	Define what Employee Compensation is and list out the factors influencing Employee Compensation.	7M	3, 4, 5	1
	b)	Explain the need of IR with respect to HRM	7M	3, 4, 5	2
		OR			
10.	a)	Describe the pros and cons of any four Performance Appraisal tools.	7M	3, 4, 5	2
	b)	Explain different methods of Performance Appraisal.	7M	3, 4, 5	2

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R-17

Code: 7G57E

IV B.Tech. I Semester Regular Examinations February 2021

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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		Marks	CO	Blooms Level

UNIT–I

1. a) List out salient features of Private Limited and Public Limited companies. — 7M — 1

   b) Explain the Merits and Demerits of Cooperative and Government owned companies. — 7M — 2

OR

2. a) List out various Functions of Marketing management. — 7M — 1

   b) Explain in detail about Product life cycle. — 7M — 2

UNIT–II

3. Explain the importance of Concept of time value of money in management with the help of few examples. — 14M — 2

OR

4. Differentiate between Fixed and Working capital by assuming some examples. — 14M — 2

UNIT–III

5. Explain in detail about the ABC analysis. — 14M — 2

OR

6. A PERT network consists of seven activities. The optimistic time (t0), most likely (tm) and pessimistic time (tp) as estimated for different activities in weeks are given below in table. — 3

Activity / Time	1-2	1-3	1-4	2-5	3-5	4-6	5-6
to	1	1	2	1	2	2	3
tm	1	4	2	1	5	5	6
tp	7	7	8	1	14	8	15

Draw the network. Determine critical path and standard deviation of project. What is the probability of completing the project weeks earlier than the expected time? — 14M

UNIT–IV

7. List out various functions of human resource planning. — 14M — 1

OR

8. Explain the traits of a leader and leadership styles. — 14M — 2

UNIT–V

9. Explain in detail the entrepreneurial characteristics. — 14M — 2

OR

10. Explain in detail the steps in process design and Plant Design. — 14M — 2

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R-17

Code: 7G176

IV B.Tech. I Semester Regular Examinations February 2021
Machine Learning
(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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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	Define Machine learning? What are its applications?	7M	CO1	L1
	b)	What are the steps in Find-S algorithm? Explain with an example.	7M	CO2	L1,L2
		OR			
2.	a)	Write about version spaces and candidate-Elimination algorithm?	7M	CO2	L2
	b)	Explain about inductive learning hypothesis with an example.	7M	CO3	L2
		UNIT–II			
3.	a)	What are the issues in decision tree learning? How to rectify them.	7M	CO4	L1,L4
	b)	Describe any one problem that can be suitable for solving using Decision tree induction algorithm.	7M	CO2	L2
		OR			
4.	a)	Explain about perceptron model with a neat sketch.	7M	CO3	L2
	b)	Design a solution for face recognition problem.	7M	CO5	L6
		UNIT–III			
5.	a)	What are the assumptions made with naive baye's classifier? Explain each term in naïve baye's classifier	7M	CO1,CO2	L1,L2
	b)	Write short notes on EM algorithm.	7M	CO1,CO2	L3
		OR			
6.	a)	Describe the terms fitness function, population in Genetic algorithms with an example.	7M	CO3,CO5	L2
	b)	Explain about different models of evolution and learning.	7M	CO1,CO5	L2
		UNIT–IV			
7.	a)	Explain about analytical learning.	7M	CO1	L1,L2
	b)	Write and explain sequential covering algorithm.	7M	CO2	L1,L2
		OR			
8.	a)	Write short notes on inverting resolution.	7M	CO3	L1,L2
	b)	Write short notes on Search control knowledge.	7M	CO5	L1,L2
		UNIT–V			
9.	a)	Explain KBANN algorithm with a neat sketch	7M	CO5	L2,L3
	b)	Write short notes on convergence in Q-learning	7M	CO5	L2,L4
		OR			
10.	a)	Write short notes on reinforcement learning.	7M	CO3	L1
	b)	Explain about temporal difference learning briefly.	7M	CO5	L2

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R-17

Code: 7G173

IV B.Tech. I Semester Regular Examinations February 2021
Mobile Application Development
(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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		Marks	CO	Blooms Level
	UNIT–I			
1.	Categorize the various types of android applications and justify which among them provides fast performance and high reliability with an example.	14M	1	4
	OR			
2.	Determine the steps with appropriate procedure involved in linking activities with intents in android application development	14M	1	3
	UNIT–II			
3.	Demonstrate the use of picker views with a suitable example	14M	2	3
	OR			
4.	Create a basic application that populate list of items in a list view.	14M	2	6
	UNIT–III			
5.	Illustrate the process of generating a UI which have *FrameLayout* within *RelativeLayout* and within the *FrameLayout* embed an *ImageView*	14M	3	4
	OR			
6.	Discuss in detail about creating a database and how to use it for storing and retrieving data	14M	3	2
	UNIT–IV			
7.	Explain the different parts of Intent object required to send an Email in detail	14M	4	2
	OR			
8.	Generate the steps involved in managing SMS operations such as sending data to the given mobile device using SmsManager.	14M	4	6
	UNIT–V			
9.	Discuss the use of Location Services in your app to get the location specific information about the current and updated locations	14M	5	2
	OR			
10.	Illustrate the feature in Android which allows playing music in the background while the user is in a different application	14M	5	3

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R-17

Code: 7G177

IV B.Tech. I Semester Regular Examinations February 2021
Software Project Management
(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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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	What are five necessary improvements in waterfall model?	7M	CO1	BL2
	b)	Describe return on investments in different domains.	7M	CO2	BL1
		OR			
2.	a)	How Does Peer inspections improve software Economics	7M	CO2	BL3
	b)	Give industrial software metrics top 10 list.	7M	CO1	BL2
		UNIT–II			
3.	a)	What are engineering artifacts? Explain.	7M	CO2	BL2
	b)	Explain the first two phases of the life-cycle process.	7M	CO1	BL2
		OR			
4.		Explain the goals of inception phase, Elaboration phase, Construction phase and Transition phase	14M	CO3	BL3
		UNIT–III			
5.	a)	Explain conventional and Evolutionary work break down structures?	7M	CO2	BL2
	b)	Define Software Architecture? How Architecture improves Modern Software Development Process	7M	CO3	BL4
		OR			
6.	a)	Explain briefly planning balance throughout the life	7M	CO2	BL2
	b)	Discuss in detail about Top Level workflows?	7M	CO2	BL2
		UNIT–IV			
7.	a)	Analyze Evolutionary of planning fiedlity in the WBS over the life cycle	7M	CO4	BL3
	b)	How does cost and Schedule estimation process effects projects plan	7M	CO4	BL4
		OR			
8.	a)	Sketch the hierarchy in software-line - of business Organization. Explain?	7M	CO5	BL4
	b)	Discuss the Default Project Organizations and Responsibilities?	7M	CO4	BL2
		UNIT–V			
9.	a)	Explain about software management best practices.	7M	CO5	BL4
	b)	Give the seven core Metrics in process instrumentation	7M	CO5	BL4
		OR			
10.	a)	Discuss in detail about the Management Indicators.	7M	CO4	BL4
	b)	Consider various aspects which differs small scale and large scale projects	7M	CO5	BL5

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