Hall Ticket Number :										

R-17

Code: 7G171

IV B.Tech. I Semester Supplementary Examinations July 2021

Big Data and 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			
1.	a)	What are the characteristics of Big Data	6M		
	b)	Provide an example industry where the Big Data analytics is essential. Describe the problems and issues involved in it.	8M		
		OR			
2.	a)	Compare MapReduce with other systems	10M		
	b)	What is the role of MapReduce in Hadoop	4M		
		UNIT–II			
3.		Explain the anatomy of file read and write operations in HDFS framework.	14M		
		OR			
4.	a)	Explain Hadoop architecture model	8M		
	b)	How does Hadoop HDFS ensure that data is not lost and can be retrieved quickly?	6M		
		UNIT–III			
5.	a)	Explain the entities being involved in MapReduce job run	7M		
	b)	Explain a default mapReduce job	7M		
		OR			
6.	a)	Explain different failures encountered in Hadoop during run time. How they are dealt.	7M		
	b)	Explain different job scheduling algorithms used in MapReduce.	7M		
		UNIT–IV			
7.		How does Hadoop maintains built in counters for every job. Describe some of the counters under each group.	14M		
		OR			
8.	a)	Describe the two level network architecture in a Hadoop cluster.	7M		
	b)	Explain the steps involved in Hadoop cluster configuration	7M		
		UNIT–V			
9.	a)	What is Pig? Describe its properties	4M		
	b)	Explain the Pig data types.	4M		
	c)	Describe the components of Pig.	6M		
		OR			
10.	a)	Illustrate the working of Hive with a neat sketch	10M		
	b)	Describe Hive data types with and example.	4M		

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Hall Ticket Number :										

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Code: 7G674

IV B.Tech. I Semester Supplementary Examinations July 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)	Demonstrate natural disaster and man-made disaster, what are the effects of disasters on environmental health facilities and services.	7M	CO1	L2
	b)	Explicit an account on different approaches to disaster management and relation with human ecology.	7M	CO1	L2
		OR			
2.	a)	Summarize the concept of first responder with special reference to the role of the government in first response.	7M	CO1	L1
	b)	Discuss various methods for rescuing affected persons in a disaster situation.	7M	CO1	L1
		UNIT–II			
3.	a)	State epicenter and focus? Create with a neat diagram? Based on depth how many types of earthquake are classified.	8M	CO2	L1
	b)	Explore plate tectonic movements, describe landslides.	6M	CO2	L1
		OR			
4.	a)	Explicit a note on man-made landslides. State what are the mitigation measures at the time of land-slides?	7M	CO2	L5
	b)	Explore various environmental Impacts of Volcanic Eruptions	7M	CO2	L5
		UNIT–III			
5.	a)	Describe a flow chart of planetary and extra planetary hazard.	6M	CO3	L3
	b)	Elucidate the consequences of the phenomenon of drought? Summarize briefly.	8M	CO3	L3
		OR			
6.	a)	Distinguish the difference between natural disaster and man-made disaster.	7M	CO3	L2
	b)	Examine the role of corporate social responsibility as an emerging avenue in managing disasters.	7M	CO3	L2
		UNIT–IV			
7.	a)	What are the important steps in relief distribution and summarize the different types of damages that occur due to disasters.	8M	CO4	L4
	b)	Illustrate the floods hazards of India in the past years.	6M	CO4	L4
		OR			
8.	a)	Explicit a note on floods and discuss its types and causes.	6M	CO4	L1
	b)	Summarize briefly the pattern of global population growth in recent years which is causing alarm to environmental experts.	8M	CO4	L1
		UNIT–V			
9.	a)	List out some guidelines for achieving sustainable development.	6M	CO5	L5
	b)	Explicit the methods to predict natural disasters and discuss the role of technology in disaster management.	8M	CO5	L5
		OR			
10.	a)	Summarize the different types of damage reports. Identify the different types of rehabilitation.	8M	CO5	L3
	b)	Discuss the role of technology in disaster management.	6M	CO5	L3

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Code: 7GA71

IV B.Tech. I Semester Supplementary Examinations July 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)	What is HRM? Explain its nature and Scope.	7M	1,2	1
	b)	Explain HRM Operational Functions.	7M	1,2	2
		OR			
2.	a)	What is Ethics? Enumerate the need of ethical aspects of HRM	7M	1, 2	4
	b)	Differentiate personnel management and HRM	7M	1, 2	5
		UNIT–II			
3.	a)	Elicit the role of Human Resource Information System in an organization.	7M	6, 7 8	2
	b)	What are the different factors affecting HRP.	7M	6, 7, 8	4
		OR			
4.	a)	Define Job Description. What items are typically included in the Job Description?	7M	6, 7, 8	1
	b)	Describe Job Description and its importance.	7M	6, 7, 8	2
		UNIT–III			
5.	a)	What is recruiting? Explain process and factors affecting recruitment.	7M	1, 4	4
	b)	Write about the importance of internal recruitment methods.	7M	1, 4	2
		OR			
6.	a)	Explain the emerging trends in Employee Selection Process.	7M	1, 4	2
	b)	Define placement and orientation role in HRM	7M	1, 4	1
		UNIT–IV			
7.	a)	List and briefly explain each of the steps in the Training Process.	7M	3, 4,5	1
	b)	Explain different methods of training.	7M	3, 4, 5	2
		OR			
8.	a)	Define the process of Career stages and Development	7M	3, 4,5	1
	b)	List the advantages and disadvantages of training process	7M	3, 4, 5	1
		UNIT–V			
9.	a)	Define compensation? Explain various components of pay structures in India.	7M	3, 4, 5	1
	b)	List out various types of compensation process	7M	3, 4, 5,	1
		OR			
10.	a)	Write a note on Industrial Relations objectives, need and parties involved	7M	3, 4, 5	3
	b)	Define the need of Performance Appraisal	7M	3, 4, 5	1

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Code: 7G176

IV B.Tech. I Semester Supplementary Examinations July 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? Explain the different types of issues in Machine Learning?	7M	CO1	L1,L2
	b)	What is the use of candidate elimination algorithm using version space? Explain with an example.	7M	CO1	L1,L2
		OR			
2.	a)	List out the steps in designing a learning system.	4M	CO1	L1
	b)	Design a learning system for checkers learning problem.	10M	CO5	L6
		UNIT–II			
3.	a)	What is a decision tree? Draw a sample diagram and write the steps how to interpret a decision tree.	7M	CO2	L1,L2
	b)	What are the major issues in designing a decision tree? Suggest the possible solutions.	7M	CO3	L5
		OR			
4.	a)	What is the motivation behind the Artificial Neural Networks? Explain in your own terminology.	4M	CO1	L1,L2
	b)	Write the steps in Back Propagation algorithm. Analyze each step and give justification.	10M	CO2	L1,L4
		UNIT–III			
5.	a)	State and explain Baye's theorem wit an example.	7M	CO1	L1,L2
	b)	What is maximum likelihood estimation? Give the diagrammatical representation of MLE.	7M	CO4	L1,L4
		OR			
6.	a)	Describe the facts in motivating the Genetic Algorithms. Are they useful to the state of art problems? Give a justification.	7M	CO5, CO6	L2,L5
	b)	Demonstrate the GA approach to solve GABIL system to learn the disjunctive set of propositional rules. Clearly mention your steps.	7M	CO2, CO6	L3
		UNIT–IV			
7.	a)	Explain about sequential learning algorithm.	7M	CO1	L1
	b)	Summarize the steps in learning rule sets.	7M	CO2	L2
		OR			
8.	a)	Differentiate between inductive and analytical learning.	7M	CO4	L2
	b)	Explain about the PRGLOG-EBG algorithm.	7M	CO2	L2
		UNIT–V			
9.	a)	Explain hypothesis space search with an example.	7M	CO2	L2
	b)	Explain KBANN with a suitable illustration.	7M	CO2	L2
		OR			
10.	a)	What do you mean by reinforcement learning? Write the applications of reinforcement learning.	7M	CO3	L1
	b)	Explain Q-learning with an illustration.	7M	CO3	L1

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Code: 7G173

IV B.Tech. I Semester Supplementary Examinations July 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.	Android is a powerful operating system competing with Apple 4GS and support great features. Summarize those great features.	14M	1	2
	OR			
2.	List and Elaborate the four main components that can be used within an Android application	14M	1	1
	UNIT–II			
3.	Outline the tips to make a better UI design and also explain how to design a UI.	14M	2	4
	OR			
4.	List the various methods available in ActionBar API class and explain their usage with appropriate examples	14M	2	1
	UNIT–III			
5.	Demonstrate how to store data locally in an Android app with an appropriate example	14M	3	3
	OR			
6.	Apply Image View to display pictures in Android Programming with an appropriate code snippet	14M	3	3
	UNIT–IV			
7.	Explain the different parts of our Intent object required to send an SMS	14M	4	2
	OR			
8.	Determine how to use Intent object to launch Email client to send an Email to the given recipients.	14M	4	3
	UNIT–V			
9.	Explain the process of fetching data over the network without blocking user interaction with an activity	14M	5	2
	OR			
10.	Determine the use of Location Services in generating the Location Quality of Service and displaying a location address	14M	5	3

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