Hall Ticket Number :						R-19

Code: 19A18DT

IV B.Tech. II Semester Regular Examinations April 2023

Disaster Management

		(Common to ME & CSE)			
	Мо	,	ime: 3 I	Hours	
	Ans	wer any five full questions by choosing one question from each unit (5x1	4 = 70 N	(arks	
			Marks	СО	BL
		UNIT-I	Marko		
1.		Discuss about the statement 'Disasters occurs when Hazard meets the			
		Vulnerability' with the help of any flow chart.	14M	CO1	L2
		OR			
2.	a)	Explain in detail about the vulnerability profile of India	7M	CO1	L2
	b)	Define disaster management. Explain disaster management cycle?	7M	CO1	L1
		UNIT-II			
3.	a)	Explain in brief about the vulnerability and damage caused by floods	7M	CO2	L2
	b)	Explain in detail about the causes and types of droughts	7M	CO2	L2
		OR			
4.	a)	What is earthquake? Explain terms related to earthquake?	7M	CO2	L1
	b)	What the main steps that are involved in recording the disasters?			
		Explain any case study recorded in India, related to earthquake.	/IVI	CO2	L1
		UNIT-III			
5.		Discuss the environmental, health, psycho-social impacts due to nuclear			
		radiation and volcanoes taking suitable examples.	14M	CO3	L2
		OR			
6.		Discuss the ecological, social, economic impacts due to cyclones and drought taking suitable examples.	14M	CO3	12
		drought taking suitable examples.	14101	003	LZ
		UNIT-IV			
7.	a)	Describe various organizations in India towards disaster management?		CO4	
	b)	Explain disaster mitigation mechanisms in India?	7M	CO4	L2
•	- \	OR	71.4	004	
8.	a)	Explain the role of disaster mitigation agencies at different levels?	7M		L2
	b)	Discuss in detail about the 'Disaster management' cycle and its phases?	/ IVI	CO4	L2
		UNIT-V			
9.		What are the positive and negative impacts due to dam construction on	4 45 4	00-	
		both sides of dam?	14M	CO5	L1
10		OR Evaloin the methods to predict natural dispeters and dispuss the role of			
10.		Explain the methods to predict natural disasters and discuss the role of technology in disaster management.	14M	CO5	L2
		****END****			

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Max. Marks: 70

IV B.Tech. II Semester Regular Examinations April 2023

Data Science

(Computer Science and Engineering)

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)Marks CO BL UNIT-I 1. a) Explain Data Science phases and lifecycle and write the names of tools for Data Science. 7M L2 1 b) What is a probability distribution? Explain the difference between discrete and continuous distributions. 7M L2 OR 2. a) Explain the concept of big data and its role in data science. How has big data changed the way we approach data analysis? 7M L3 b) What is statistical modelling? Explain the process of fitting a model to data. 12 7M 1 UNIT-II 3. a) What is exploratory data analysis (EDA)? Describe the various tools used in EDA. 7M 2 L2 7M 2 L3 b) Explain Logistic Regression with an example 4. What is machine learning? Discuss the two basic machine learning algorithms L2 with examples 14M 2 UNIT-III Explain the Random Forest algorithm with an example. 14M L3 5. 3 a) How does Google's approach to social research incorporate machine learning and data analysis techniques? 7M 3 L3 b) Discuss the filter, wrapper, and embedded methods of feature selection. 7M L2 UNIT-IV 7. a) What is a bipartite graph? Explain its applications in building recommendation 7M L3 engines. b) Compare and contrast SVD(Singular Value Decomposition) and PCA (Principal Component Analysis) for dimensionality reduction technique. 7M L2 8. a) Explain Principal Component Analysis in detail 7M L3 b) What is the role of data in building a user-facing data product? Explain with examples. 7M L2 UNIT-V 9. a) What are the different technologies available for data visualization? Compare and contrast their features. 7M L3 b) Explain the key principles of data modelling. How can data modelling help in Data Engineering? 7M 5 L2 OR 10. a) How do you handle missing data in data visualization? Discuss the different techniques available. 7M 5 L2 b) Explain the MapReduce programming model. Discuss its applications and L2 limitations. 5 7M ***END***

Time: 3 Hours

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	IV B.Tech. II Semester Regular Examinations April 2023			
	Entrepreneurship Development			
	(Common to CE & CSE) Max. Marks: 70 Answer any five full questions by choosing one question from each unit (5x14 ***********************************	me: 3 H 1 = 70 Ma		
		Marks	СО	BL
1.	Define the term entrepreneur and explain the characteristics of an Entrepreneur?	14M	C1	L1
2.	OR What are the factors that affect the entrepreneurial growth in the county? Discuss in detail?	14M	C1	L1
3.	UNIT-II What are the major motives influencing the entrepreneur and explain them? OR	14M	C2	L1
4.	What are the Entrepreneurship Development Programmes and explain its need and objectives?	14M	C2	L2
5.	UNIT-III Define SSI? Explain the steps involved in setting up of business? OR	14M	C3	L1
6.	Briefly discuss the system of Project Appraisals?	14M	C3	L2
7.	UNIT-IV What is Working Capital? Discuss the importance and sources of working			
	capital of SSIs?	14M	C4	L2
8.	OR What is Break Even Point? Explain in detail?	14M	C4	L1
9.	UNIT-V What is small scale industry sickness? Explain the causes and consequences? OR	14M	C5	L2
10.	What is the government policy with regarding Small Scale Industry? Discuss? ***END***	14M	C5	L2

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Max. Marks: 70

IV B.Tech. II Semester Regular Examinations April 2023

Software Architecture

(Computer Science and Engineering)

		er any five full questions by choosing one question from each unit (************************************) Marks	
			Marks	СО	BL
		UNIT-I			
1.	a)	Summarize on Software Architecture.	4M	CO1	L2
	b)	Why Architecture is important for software development and explain where it originated.	10M	CO1	L2
		OR			
2.		List and explain the various good features of Software Architecture.	14M	CO1	L2
		UNIT-II			
3.		Compare and contrast pipes and filters.	14M	CO2	L2
		OR			
4.		Discuss in detail on Heterogeneous Architectures	14M	CO2	L2
5.		UNIT-III Discuss how the integration is done in software development	4 4 1 4 1	000	
		environments	14M	CO3	L2
6.		OR Explain how the Transition happened from Batch Sequential to Repository	14M	CO3	L2
		UNIT-IV			
7.		Describe in detail on how to formalize the architecture for a specific system. Give examples	14M	CO4	L2
		OR			
8.		Describe the common Software Architecture Structures with neat diagram.	14M	CO4	L2
		UNIT-V			
9.		Analyze the different styles in Architectural Design Environment OR	14M	CO5	L4
10.		List and Explain the various factors which makes Software Product Lines Difficult ***END***	14M	CO5	L2
		EIND			

Time: 3 Hours