Hall Ticket Number :	D 00	
Code: 20A17MT	R-20	
IV B.Tech. I Semester Regular Examinations November 202	23	
Disaster Management (Common to CE & CSE)		
Max. Marks: 70 Ti	me: 3 Hc	ours
Note: 1. Question Paper consists of two parts (Part-A and Part-B)		
2. In Part-A, each question carries Two marks .		
3. Answer ALL the questions in Part-A and Part-B		
<u>PART-A</u> (Compulsory question)		
1. Answer all the following short answer questions ($5 \times 2 = 10M$) CO	BI
a) Differentiate disaster and risk.	,	1
b) Write any four impacts due to man-made disasters.	2	1
c) Explain about disaster risk reduction.	4	2
d) Enlist the methods of crisis management.	3	2
e) Write about the meaning of 'capacity building of society'.	5	2 1
PART-B	5	I
Answer <i>five</i> questions by choosing one question from each unit (5 x 12 =	60 Marks	;)
	Marks	CO
a) Explain the occurrence of Tsunami and its characteristics.	4M	1
b) Describe any one case study of Tsunami disaster in the world	. 8M	1
OR		
a) Explain the cause and occurrence of cyclone.	4M	1
b) Describe any one recent case study of Cyclone disaster in		
India.	8M	1
a) Explain about oil spill and its general impacts on ocean.	4M	2
b) Describe about Ennore oil spill and its disaster impacts.	8M	
OR	OIVI	Z
a) Explain about the causes of accidents in case of road and rail	6М	0
b) Describe about the recent rail accident in India.	6M	2
a) What is emergency management and mention its methods.	6M	3
b) Explain the importance of emergency management.	6M	3
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Code: 20A17MT

7.	a)	Discuss about the monitoring of hazardous components in places of public importance.	6M	3	2
	b)	Discuss the importance of Industrial safety drills to educate industry staff.	6M	3	2
		UNIT–IV			
8.	a)	Explain about concept of Disaster Risk Reduction (DRR).	4M	4	2
	b)	Discuss about activities of national body in India working			
		towards the DRR and risk assessment.	8M	4	3
		OR			
9.	a)	Explain any three methods of disaster risk assessment.	9M	4	2
	b)	Discuss about international bodies working towards the cooperation of multi-nations during disaster and risk			
		assessment.	3M	4	2
		UNIT–V			
10.	a)	Enlist the post disaster situations and explain any two.	6M	5	2
	b)	Explain about the capacity building of industries.	6M	5	2
		OR			
11.	a)	Describe about the methods and strategies for re-			
	-	development aftermath.	8M	5	2
	b)	Discuss about the disaster resistant design in industries.	4M	5	2
		*** End ***			

<u> </u>	de: 20AE7AT	R-20	
	IV B.Tech. I Semester Regular Examinations November 20	123	
	Human Resource Management	520	
	(Common to CSE and AI&DS)		
Ма		Time: 3 Houi	rs

Not	e: 1. Question Paper consists of two parts (Part-A and Part-B)		
	2. In Part-A, each question carries Two marks .		
	3. Answer ALL the questions in Part-A and Part-B		
	<u>PART-A</u>		
	(Compulsory question)	00 DI	
	1. Answer all the following short answer questions $(5 \times 2 = 10 \text{ M})$	CO BL	
	a) Write are the functions of HRM	1 1 2 1	
	 b) What is Human Resource Planning c) Define Recruitment. 	2 1 3 1	
	d) What is Career Development	3 1 4 1	
	e) What is Compensation	5 1	
	PART-B	•	
Α	nswer <i>five</i> questions by choosing one question from each unit (5 x 12	= 60 Marks)	
		Marks	
	UNIT–I		
	Explain the nature and scope of HRM.	12M	1
	OR		
a)	Explain Managerial functions and Operative functions of HRM.	6M	1
b)	Explain Ethical aspects of HRM.	6M	1
	UNIT–II		
	Explain the process of HR Planning.	12M	2
	OR		
	Explain the concept of Job analysis and steps in Job Analysis process.	12M	2
	Explain various steps in selection process.	12M	3
	OR		
a)	Discuss Factors governing Recruitment	6M	3
b)	Write a short notes on Barriers to effective selection	6M	3
,	UNIT–IV		
a)	What are the Inputs in Training and development	6M	4
b)	Write about Training Process	6M	4
	OR		
	Explain Impediments to effective training UNIT-V	12M	4
	Discuss the Grievance process, Importance and Approaches of Industrial relati	ons 12M	5
	OR		

L	Hal	I Ticket Number :			
		le: 20A57PT	R-20		
		IV B.Tech. I Semester Regular Examinations November 2	2023		
		NoSQL Databases			
		(Computer Science and Engineering)	.		
	Max	K. Marks: 70 ********	Time: 3 Ho	ours	
I	Note	e: 1. Question Paper consists of two parts (Part-A and Part-B)			
		2. In Part-A, each question carries Two marks.			
		3. Answer ALL the questions in Part-A and Part-B			
		PART-A (Compulsory question)			
1	Δns	(Compulsory question) wer all the following short answer questions (5 X 2 = 10M)	со	BL	
		hat is the need of NoSQL?	CO1	L4	
,		hat is the CAP theorem?	CO2	L2	
c)	,) De	fine Indexing.	CO2	L2	
d)) W	hat is a Key-Value Store?	CO2	L1	
e)) Lis	st out any two limitations of Document Database?	CO4	L1,L2	2
		PART-B			
		Answer <i>five</i> questions by choosing one question from each unit ($5 \ge 12 = 0$	60 Marks)		
			Marks	CO	В
2		UNIT-I			
2.		What are four categories of NoSQL databases? Explain each databa category and features.	12M	CO1	L
		OR			
3.	a)	Explain about Graph Databases and its applications.	6M	CO2	L
	b)	Explain about Document databases and its features.	6M	CO1	Ľ
4.	a)	Why data distribution is important. List out and explain the different data	ata		
	~,	distribution models of NOSQL.	6M	CO2	L
	b)	Compare SQL and NoSQL database system.	6M	CO3	Ľ
5.	2)	OR How CAP theorem is applicable to NoSQL systems?	6M	CO2	L
5.	b)	Explain about replication durability.	6M	CO3	Ľ
	~)		•		_
6.	a)	List and explain the features of Key-Value Store.	6M	CO3	Ľ
	b)	Explain Update Consistency along with Write-Write Conflict.	6M	CO2	Ľ
7.		OR Explain in detail about Hbase Distributed Storage Architecture in NoSQL.	4014	<u> </u>	1.4
7.		UNIT-IV	12M	CO3	Ľ
8.	a)	Explain the Similarities between SQL And MongoDB Query features.	6M	CO3	L
	b)	Explain about Schema Evolution In Column-Oriented Databases.	6M	CO4	Ľ
9.	a)	OR Discuss in detail about Data Evolution In Key/Value Stores.		CO4	1.4
9.	a) b)	How to Access the Mongo dB and HBase.	6M 6M	CO4 CO3	L: L:
	,	UNIT-V	0.01	200	
10.		Explain Indexing and Ordering In MongoDB databases.	12M	CO4	Ľ
10. 11.		Explain Indexing and Ordering In MongoDB databases. OR Explain Indexing and Ordering In Couchdb	12M 12M	CO4 CO5	L.

[Ha	I Ticket Number :			
L	Coc		R-20		
		IV B.Tech. I Semester Regular Examinations November 202	3		
		R Programming			
	Ma	(Computer Science and Engineering) k. Marks: 70	ne: 3 F	lours	
	TVIC)	******	110.01	10013	
	Note	e: 1. Question Paper consists of two parts (Part-A and Part-B)			
		 In Part-A, each question carries Two marks. Answer ALL the questions in Part-A and Part-B 			
		<u>PART-A</u>			
		(Compulsory question)			
		swer all the following short answer questions $(5 \times 2 = 10M)$		-	3L
	,	Describe any two features of R-Programming.	C		_1
	,	Vhat is a list? Write a R program that creates a list?	-	J2 L	_2
('	Vrite how sub data frames by rows or columns are extracted in rogramming.	_	ОЗ 1	2
c	-	Describe the cut() function with example.		⁻	2
		Vrite an R code to add lines to an empty graph.	-	О5 L	
	-, -	PART-B			
	4	Answer <i>five</i> questions by choosing one question from each unit ($5 \times 12 = 60$) Marks)	
			Marks	со	BL
		UNIT–I			
2.	a)	Explain scalar and vector with an example.	6M	CO1	L2
	b)	Write R programs that Generates Vector Sequences and			
		Vector Constants.	6M	CO1	L4
		OR			
3.	a)	Explain Vectorized Operations with suitable programs.	8M	CO1	L2
	b)	Write R program for Adding and Deleting Vector Elements.	4M	CO!	L2
	、				
4.	a)	Write R programs that Perform Linear Algebra Operations	6M		
	b)	on Matrices.		CO2	
	D)	Explain the General list operations in R with example code.	OIVI	CO2	L1
F	\sim	OR Evolution in datail String Manipulation? Write B program that			
ວ.	a)	Explain in detail String Manipulation? Write R program that perform String Manipulation.	6M	CO2	14
	b)	Explain about Applying functions to matrix with example.	6M	CO2	
	0)		UN	002	L2

		ie: ZUA	5/IN I	
6. a)	UNIT-III Explain the Usage of the following functions on data frames.			
	rbind(), cbind(),apply(), merge(), lapply() and sapply()	6M	CO3	L3
b)	Discuss how the functions are used in factors and give with			
	examples.	6M	CO3	L2
	OR			
7. a)	Explain Arithmetic and Boolean Operators and Values in R			
	programming language with suitable code.	6M	CO3	L1
b	List the set of built-in math functions and it's usage in R?		CO3	
		•	000	- 1
8. a)		6M	CO4	L4
b)	With example describe various file operations in R.		CO4	
,	OR			
9. a)	"The idea of inheritance is to form new classes as			
0. 0.)	specialized versions of old ones", Justify your answer.	6M	CO4	12
b)	Write a R code to test a Filename for a Given Suffix and		001	
0)	also test it for HTML files.	6M	CO4	12
	UNIT-V	•	004	LZ
10. a)				
,	program.	6M	CO5	L1
b)	Describe how can you load a .csv file in R with code?	6M	CO5	L1
,	OR			
11. a)				
	Cex, xlim, ylim, polygon, lowess and loess().	6M	CO5	12
b)	What is the interface between R and Python? Explain in	0	000	LZ
6)	detail how to call R from Python?	6M	CO5	12
	*** End ***		000	LZ

		R-20		
Code	IV B.Tech. I Semester Regular Examinations November 20			
	Software Testing Methodologies	20		
Max	(Computer Science and Engineering) Marks: 70	ime: 3 H		
Mux.	WUIKS.70 *******	ппе. з п	OUIS)
/	 Question Paper consists of two parts (Part-A and Part-B) In Part-A, each question carries Two marks. 			
	3. Answer ALL the questions in Part-A and Part-B PART-A			
	(Compulsory question)			
	wer all the following short answer questions $(5 \times 2 = 10M)$	C	о в	L
,	hat is the purpose of Testing?		1	1
,	st out different types of path instrumentation.		2	2
,	ame three different types of junctions in transaction flow testin	g.	3	2
	efine Absorption Law with example.		-	1
e) Di	scuss the importance of State Table.		5	3
А	$\frac{PART-B}{PART-B}$ nswer <i>five</i> questions by choosing one question from each unit (5 x 12 = 60)	Marks)		
		Marks	со	BL
	UNIT-I			
	Write the consequences of bugs	7M	1	2
b)	Discuss the factors involved in bug severity.	5M	1	1
	OR	014		
,	Discuss any three dichotomies of testing.	9M	1	1
D)	Write about coding bugs with example.	3M	1	2
I. a)	UNIT–II Discuss about fundamental path selection criteria.	4M	2	2
b)	Briefly explain single and double link marker instrumentation.	8M	2	2
0)	OR	OW	Z	5
5. a)	Explain co-incidental correctness with suitable example.	5M	2	2
b)	_ ·		2	2
,	UNIT-III		2	2
6. a)	Discuss various data flow machines with different	t		
	architectures.	5M	3	3
b)	Explain Transaction flow mergers and junctions with	1		

7.	a)	Define Slicing and Dicing. Describe the Relative Strength of Structural Test Strategies with suitable diagram.	8M	3	4
	b)	What is transaction? Explain various Transaction flows in detail.	4M	3	3
		UNIT–IV			
8.	a)	Explain Reduction procedure with an example.	9M	4	4
	b)	State De Morgan's Law with an example.	3M	4	4
		OR			
9.	a)	Describe the KV-Chart for three variables with suitable			
	,	diagram.	6M	4	3
	b)	Explain Maximum path count arithmetic with an example.	6M	4	4
		UNIT-V			
10.	a)	Discuss the principles of state testing.	5M	5	3
	b)	Explain node reduction algorithm with an example.	7M	5	4
		OR			
11.	a)	Write short notes on (a) Transition bugs (b) Dead states	6M	5	5
	b)	Describe reflexive, symmetric, asymmetric and transitive			
	,	relations with examples.	6M	5	5
		*** End ***			

Hall Ticket Num	nber :			
Code: 20A57CT		R-20	0	
	Fech. I Semester Regular Examinations Novemb	er 2023		
	Big Data Analytics			
Max. Marks: 70	(Computer Science and Engineering)	Time: 3	Hours	

2. In Part-	n Paper consists of two parts (Part-A and Part-B) A, each question carries Two marks. • ALL the questions in Part-A and Part-B			
	PART-A			
	(Compulsory question)			
	llowing short answer questions $(5 \times 2 = 10 \times 10^{10} \times$	/	CO	BL
a) What is the sigr	nificance of Big Data in today's data-driven world	<u>1</u> ?	CO1	L2
b) Define Hadoop	Streaming.		CO2	2 L2
c) What is Data Co	•		COC	3 L1
d) List MapReduce	•		CO4	4 L1
e) Describe the re-	sponsibilities of administering HDFS in a Hadoo	p cluster?	CO	5 L2
Answer five a	<u>PART-B</u> uestions by choosing one question from each unit(5 x	v 12 – 60 Ma	rke)	
Answei me qu	desitons by choosing one question from each unit (5 /	Marks	CO	BL
	UNIT–I			
2. a) Define Big	Data and explain its three main characteristic	s. 6M	CO1	L2
b) List three	best practices for maintaining high-quality E	Зig		
Data analy	ytics.	6M	CO1	L2
	OR			
3. a) How does	Big Data differ from traditional data processing	g? 6M	CO1	L3
b) What is H	adoop and how does it facilitate data storage	in		
Big Data a	applications?	6M	CO1	L2
	UNIT-II			
· . •	he basic concept of Map Reduce and how		000	
	data analysis in Hadoop.		CO2	L2
b) List and ex commands	xplain essential HDFS command line interface		CO2	L2
commanda	OR	OW	002	LZ
5. a) Describe a	-	0		
,	a real-world scenario where MapReduce can b used for data analysis.		CO2	L2, L4
	ne purpose and benefits of using Distcp		002	L4
<i>,</i> .	pying in Hadoop.		CO2	L2
,				
		Pag	ge 1 of 2	

	UNIT-III		
6. a)			
	does Hadoop ensure data integrity?	6M c	O3 L2
b)	Compare and contrast Classic MapReduce and YARN in terms of architecture and functionality.	6M c	:O3 L2
	OR		
7. a)	Describe the role and benefits of data compression and serialization in Hadoop I/O operations.	6M c	:O3 L1
b)	Discuss the concept of file-based data structures in Hadoop I/O. Provide examples of file-based data structures used in Hadoop.	6M c	02 14
			:O3 L1
8. a)	Explain the different types of MapReduce in the Hadoop Framework. How are they utilized in data processing?	6M c	:O4 L2
b)			
	MapReduce for specific data sources.	6M c	O4 L2
	OR		
9. a)	Discuss different output formats in MapReduce. How do they determine the structure of output data?	6M c	:O4 L2
b)	Explain the importance of sorting in MapReduce. How does sorting contribute to efficient data processing?	6M c	:O4 L1
	UNIT–V		
10.	Describe the essential components of a Hadoop cluster and their roles in the overall setup.	12M c	:O5 L2
	OR		
11. a)	Explain the significance of SSH configuration in the context of Hadoop cluster setup.	6M c	O5 L2
b)	cluster setup. What are the commonly used benchmarks?	6M c	:O5 L2
	*** End ***		

На	all Ticket Number :			1
Coc	le: 20A57GT	R-20)	
	IV B.Tech. I Semester Regular Examinations November 20	023		
	Cloud Computing (Common to CSE and AI&DS)			
Max		Time: 3	Hours	i
Note	******** e: 1. Question Paper consists of two parts (Part-A and Part-B)			
nou	2. In Part-A, each question carries Two marks.			
	3. Answer ALL the questions in Part-A and Part-B			
	PART-A			
۸nc	(Compulsory question) Swer all the following short answer questions (5 X 2 = 10N	1)	со	BL
	swer all the following short answer questions (5 X 2 = 10N ame a few companies that offer cloud services.			
,	istinguish Map reduce and Hadoop.		CO1	L1
,	hat is virtualization density?		CO2 CO3	
	st the companies who differ cloud service development.		CO3	L1
	st the security issues in Cloud Computing.			
	PART-B		005	L1
Ar	nswer <i>five</i> questions by choosing one question from each unit (5 x 12	= 60 Mai	rks)	
		Marks	СО	BL
	UNIT–I			
2. a)	What are the advantages and disadvantages of using a			
	Cloud?		CO1	
b)	Give the varous cloud infrastructure models.	6M	CO1	L1
	OR			
8. a)	Give the various service levels for the cloud Applications.	6M	CO1	L1
b)	Explain in brief Web application Design.	6M	CO1	L2
	UNIT-II	4014		
	Illustrate the architectural service models of cloud.	12M	CO2	L2
	OR			
).	Explain in detail about Map Reduce programming model.	12M	CO2	L3
5. a)	UNIT–III Define virtualization? What can be virtualized? Explain.	6M	CO3	14
b)	Discuss how Xen is implemented for the establishment of	0101	003	LI
5)	a cloud.	6M	CO3	1
	OR		200	- 1
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Code: 20A57GT

7. a)	Describe the benefits of Virtualization.	6M	CO3	L2		
b)	Explain how I/O Devices can be virtualized.	6M	CO3	L2		
	UNIT–IV					
8. a)	Explain the high-level use of cloud resource					
	management.	6M	CO4	L1		
b)	What is BigTable? What are the building blocks of BigTable?	6M	CO4	L1		
	OR					
9. a)	Briefly describe the working of Online databases.	6M	CO4	L1		
b)	Write notes on Google File System.	6M	CO4	L1		
	UNIT–V					
10. a)	What are the Cloud information Security Objectives?	6M	CO5	L1		
b)	Discuss in detail Security-as-a-Service.	6M	CO5	L2		
	OR					
11. a)	Explain about EC2 instances.	6M	CO5	L2		
b)	Discuss about connecting clouds with secure firewalls.	6M	CO5	L2		

*** End ***

R-20 R-20 R-20 IV B.Tech. I Semester Regular Examinations November 2023 Cyber Security and Ethical Hacking (Computer Science and Engineering) Max. Marks: 70 Time: 3 Hours Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two marks. 3. Answer ALL the questions in Part-A and Part-B PART-A (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) CO BART-A (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) CO BL a) Who are cyber criminals? How can you classify them? CO1 L2 b) What is internet jurisdiction? CO2 L2 CO3 L2 Marks Marks Marks CO4 L1 PART-B Answer five questions by choosing one question from each unit (5 x 12 = 60 Marks) Marks
IV B.Tech. I Semester Regular Examinations November 2023 Cyber Security and Ethical Hacking (Computer Science and Engineering) Max. Marks: 70 Time: 3 Hours Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two marks. 3. Answer ALL the questions in Part-A and Part-B PART-A (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) a) Who are cyber criminals? How can you classify them? (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) a) Who are cyber criminals? How can you classify them? (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) (Compulsory question) 1. Answer all the following short answer question? (CO2 L2 (CO3 L2 (CO3 L2 (CO4 L1 (CO5 L1 (CO5 L1 (CO5 L1 (CO5 L1 (CO6 L1 (CO6 L2 (CO7 L2 (
Cyber Security and Ethical Hacking (Computer Science and Engineering) Max. Marks: 70 Time: 3 Hours Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two marks. 3. Answer ALL the questions in Part-A and Part-B PART-A (Compulsory question) 0 1. Answer all the following short answer questions (5 X 2 = 10M) co a) Who are cyber criminals? How can you classify them? co1 b) What is internet jurisdiction? co2 c) What are the two types of cognitive hacking? co3 d) What is Syllable Attack? co4 e) Define "Pirates"? co4 L1 example. of Marks co1 L2 b) When is redundancy needed in security? Explain with an example. oR co1 J co1 J co1 L2 co1
Max, Marks: 70 Time: 3 Hours Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two marks. 3. Answer ALL the questions in Part-A and Part-B PART-A (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) CO BL a) Who are cyber criminals? How can you classify them? CO1 L2 b) What is internet jurisdiction? CO2 L2 c) What are the two types of cognitive hacking? CO3 L2 d) What is Syllable Attack? CO4 L1 e) Define "Pirates"? CO5 L1 Answer five questions by choosing one question from each unit (5 x 12 = 60 Marks) Marks CO LINIT-I 2. a) Write the advantages and disadvantages of cyber security? 6M CO1 L2 b) When is redundancy needed in security? Explain with an example. 6M CO1 L2 OR 0 CO1 L2 b) List few problems of security in internet. 6M CO1 L2 UNIT-II La 6M CO1 L2
******** Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two marks. 3. Answer ALL the questions in Part-A and Part-B PART-A (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) CO BL a) Who are cyber criminals? How can you classify them? CO1 L2 b) What is internet jurisdiction? CO2 L2 c) What are the two types of cognitive hacking? CO3 L2 d) What is Syllable Attack? CO4 L1 e) Define "Pirates"? CO5 L1 Marks CO BL UNIT-I 2. a) Write the advantages and disadvantages of cyber security? 6M CO1 L2 b) When is redundancy needed in security? Explain with an example. OR 3. a) How diversity is used as a tool in cyber security? 6M CO1 L2 D IDI IDI IDI
 2. In Part-A, each question carries Two marks. 3. Answer ALL the questions in Part-A and Part-B PART-A (Compulsory question) 1. Answer <i>all</i> the following short answer questions (5 X 2 = 10M) a) Who are cyber criminals? How can you classify them? b) What is internet jurisdiction? c) CO2 L2 c) What are the two types of cognitive hacking? d) What is Syllable Attack? e) Define "Pirates"? CO5 L1 PART-B Answer <i>five</i> questions by choosing one question from each unit (5 x 12 = 60 Marks) Marks CO L0 Example. CO BL CO Example. CO CO CO Exa
PART-A (Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M) CO BL a) Who are cyber criminals? How can you classify them? CO1 L2 b) What is internet jurisdiction? CO2 L2 c) What are the two types of cognitive hacking? CO3 L2 d) What is Syllable Attack? CO4 L1 e) Define "Pirates"? CO5 L1 Marks CO BL Answer five questions by choosing one question from each unit (5 x 12 = 60 Marks) Marks CO BL QUNIT-I 2. a) Write the advantages and disadvantages of cyber security? 6M CO1 L2 Define "Fire questions by choosing one question from each unit (5 x 12 = 60 Marks) Marks CO BL QUNIT-I 2. a) Write the advantages and disadvantages of cyber security? b) When is redundancy needed in security? Explain with an example. OR 3. a) How diversity is used as a tool in cyber security? 6M CO1 L2 b) List few problems of secu
1. Answer <i>all</i> the following short answer questions (5 X 2 = 10M) CO BL a) Who are cyber criminals? How can you classify them? CO1 L2 b) What is internet jurisdiction? CO2 L2 c) What are the two types of cognitive hacking? CO3 L2 d) What is Syllable Attack? CO4 L1 e) Define "Pirates"? CO5 L1 PART-B Answer five questions by choosing one question from each unit (5 x 12 = 60 Marks) Marks CO Marks CO BL L1 E 2. a) Write the advantages and disadvantages of cyber security? 6M CO1 L2 b) When is redundancy needed in security? Explain with an example. 6M CO1 L2 OR 3. a) How diversity is used as a tool in cyber security? 6M CO1 L2 UNIT-II UNIT-II 6M CO1 L2
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UNIT-II
UNIT-II
(a) Illustrate the private endering and the rise of terms of
4. a) Illustrate the private ordering and the rise of terms of
services as cyber regulation. 6M CO2 L3
 b) Summarize about the term CIA Traid and its fundamentals
function. 6M CO2 L3
OR
5. a) What are the premium features applied in data protection
policy? 6M CO2 L3
b) Classify the different legal approaches to cyber libel 6M CO2 L3

			20A37	AI					
		UNIT–III							
6.	a)	What are the different phases of malicious hacking?	6M	CO3	L3				
	b)	Write a short note on competitive intelligence gathering.	6M	CO3	L3				
OR									
7	2)	Why is accurity accinct backing passagery? What are the							
7.	a)	Why is security against hacking necessary? What are the elements of security?	6M	CO3	L3				
	b)	Explain briefly how "WHOIS" is used for information							
	,	gathering.	6M	CO3	L4				
		UNIT-IV							
8.	a)	List various tools in executing applications.	6M	CO4	L3				
		Describe various mechanisms of password guessing?		CO4					
	0)		0111	004	LJ				
		OR							
9.	a)	What are the various mechanisms used for escalating							
		privileges.	6M	CO4	L3				
	b)	List few tools for password cracking?	6M	CO4	L3				
		UNIT–V							
10.	a)	Explain the BLT of Perl.	6M	CO5	L2				
	b)	Explain about various Built in windows tools for identifying							
	,	vulnerabilities.	6M	CO5	13				
		OR		000	20				
	、	••••	~~~						
11.		List various programming for security professionals.	ЮIVI	CO5	L2				
	b)	What are the various countermeasures against Linux							
		attacks?	6M	CO5	L3				
		*** End ***							

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C	IV B.Tech. I Semester Regular Examinations November 202		
	Data Science	20	
	(Computer Science and Engineering)		
Ν	, , , , , , , , , , , , , , , , , , , ,	me: 3 Hc	ours

Ν	lote: 1. Question Paper consists of two parts (Part-A and Part-B)		
	2. In Part-A, each question carries Two marks.		
	Answer ALL the questions in Part-A and Part-B		
	PART-A		
	(Compulsory question) 1. Answer all the following short answer questions (5 X 2 = 10M)	CO	BL
	a) What is Data Science and What is the importance of Data Science		L1
		CO1	
			L2 L2
	 c) Differentiate Between the terms Filters and wrappers d) Discuss about singular value decomposition? 		LZ L3
	 d) Discuss about singular value decomposition? a) What are the Different applications of Data Science 		
	e) What are the Different applications of Data Science PART-B	CO5	L1
	Answer <i>five</i> questions by choosing one question from each unit ($5 \ge 12 = 60$	Marks)	
		Marks	СО
	UNIT–I		
a)	Write short notes on Drew Conway's Venn diagram of data science	6M	CO1
b)	What is Data Science and Big Data? Why Data Science is Hype now a days	?	
	Why not in the earlier.	6M	CO1
	OR		
a)	Write short on Statistical Thinking in the Age of Big Data	6M	CO1
b)	Define the term Statistical Modelling with the help of Example	6M	CO1
	UNIT–II		
	What is Machine Learning? How Does Machine Learning Work? Explain th	e 12M	CO2
	types of machine learning algorithms?		
\sim	OR Explain the various classes of Algorithms in Data Science	6M	CO2
a) b)	Define and Explain Linear Regression Algorithm	6M	CO2
0)		Olvi	002
a)	Write a Short on Feature Selection process in identifying USB Set of Data	6M	CO3
b)	Define Wrappers and Explain the method for Selection of an algorithm	6M	CO3
0)	OR	Olvi	005
A)	What is Data Extraction? Explain feature generation and extraction in dat	а	
,	science?	6M	CO3
b)	Define the term the Decision Tree Algorithm with Example	6M	CO3
	UNIT–IV		
A)	Define and Explain Singular Value Decomposition (SVD) and important features	of	
	SVD	6M	CO4
b)	Define the term Bipartite graph with the help of Diagram for an example.	6M	CO4
	OR		<i></i>
a)	Write various steps to Build Your Own Recommendation System in Data Science	6M	CO4
b)	Write a Short note on principle component analysis in detail?	6M	CO4
	UNIT–V		
	Define Data Visualization and different types of data visualization with an example	? 12M	CO5
a)	OR Define Data Engineering and explain the terms ManReduce, Pregel	<u> </u>	005
a) b)	Define Data Engineering and explain the terms MapReduce, Pregel Explain Various Recent trends and development in Data Science	6M 6M	CO5 CO5
		nivi	