

(UGC AUTONOMOUS)

B.Tech V Semester Regular/Supplementary Examinations December-2022

	Course Name: COMPUTER NETWORKS	
	(Common for CSE, IT & CSM) Date: 05.12.2022 AN Time: 3 hours Max.M	1 70
	(Note: Assume suitable data if necessary) PART-A	arks: 70
	Answer all TEN questions (Compulsory) Each question carries TWO marks. 10	x2=20M
1.	Compare guided and unguided transmission media.	2 M
2.	Outline a few application areas of computer networks.	2 M
3.	Contrast error correction and error detection techniques.	2 M
4.	Name the OSI layers in which repeater, hub, router and a switch work.	2 M
5.	Recall the role played by ICANN in networks.	2 M
6.	State the optimality principle.	2 M
7.	List any two application layer protocols that use UDP.	2 M
8.	List the three timers used by TCP.	2 M
9.	State an authoritative record in DNS.	2 M
10.	Summarize the role played by the user agent in E-mail.	2 M
11.A		10= 50M
	OR	10101
11. B	 Illustrate simplex, half-duplex and full-duplex modes of transmission. Compare the thre types of guided transmission media. 	ee 10M
12. A	a). Interpret how CSMA/CD protocol improves efficiency. Draw IEEE 802.3 frame formal labelling the fields present.	at 10M
	OR	
12. B	 Illustrate working of Go-Back-N and Selective Repeat sliding window protocols with a example. 	n 10M
13. A	 Outline the impact of congestion on network efficiency. Explain how congestion control is handled at network layer. 	ol 10M
12 . 5	OR	
13. B)	 Compare IPv4 and IPv6 in at least four aspects. Draw both IPv4 and IPv6 headers with necessary labelling. 	10M

14. A).	Draw the header format of TCP protocol and explain the fields present in the header.	10M
	OR	
14. B).	Analyse the function of TCP sliding window and its role played in handling flow control at transport layer.	10M
15. A).	Summarize the role played by HTTP protocol in the application layer.	10M
	OR	
15. B).	Illustrate the functioning of DNS with your own example.	10M

H.T No: **R18** Course Code: A30518



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

	B.Tech V Semester Regular/Supplementary Examinations December-2022 Course Name: FORMAL LANGUAGES & AUTOMATA THEORY	
	(Computer Science & Engineering)	
	Date: 07.12.2022 AN Time: 3 hours Max.Ma	arks: 70
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory)	x2=20M
1.	Differentiate between NFA and DFA.	
2.	Distinguish between Moore and Mealy machines.	2 M
3.	State Arden's theorem.	2 M
4.	List out the Applications of Regular Expressions.	2 M
5.	Give CFG for the language that contains strings of all palindromes.	2 M
6.	What is the difference between Finite Automata and PDA?	2 M
7.	State Pumping Lemma for CFL.	2 M
8.	Design Turing machine to find complement of a given binary number.	2 M
9.	Draw the block diagram of Turing machine.	2 M
10.	Discuss about recursive languages.	2 M
	in the same of the	2 M
	PART-B Answer the following. Each question carries TEN Marks. 5x1	<u>0=50M</u>
11.A	 i) Construct a Mealy Machine to find 2's complement of a given binary number. ii) Obtain DFA to accept strings having a) Exactly one a b) atleast one 'a' c) Not more than 3 a's 	5M 5M
	OR	
11. B	3). Design an NFA the set of all strings over {a, b} with three consecutive b's and construct its equivalent DFA.	s 10M
12. A	 i) State whether the following language is regular or not L = {aⁱbⁱ i>=1}. ii) Write the regular expression representing the set of all strings over {a, b} with three consecutive b's? 	5M e 5M
	OR	
12. B	 Construct an NFA with E-moves for the regular expression (Show Intermediate Steps Also) (a+b)*(aa+bb)(a+b)* 	s 10M
13. A). Describe about Ambiguity in CFG with a suitable example.	
	OR	10M
13. B)		10M

14. A).	i) Convert the following grammar to CNF. S->cBA, A->aA/a, B->bB/b	5M
	ii) Minimize the following CFG. S->A/0C1, A->B/01/10,C->0/CD	5M
	OR	
14. B).	Design a Turing machine to accept palindromes. Example $L = \{ abba \}$.	10M
15. A).	Explain the following terms in brief: i) Types of Turing Machines ii) P and NP problem iii) Church's Hypothesis.	10M
	OR	
15. B).	i) Define PCP explain PCP with an example.	7M
	ii) Describe the properties of Recursively enumerable languages.	3M



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

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B.Tech V Semester Regular/Supplementary Examinations December-2022

Name: INFORMATION SECURITY

Da	(Common for CSE & IT) ate: 09.12.2022 AN Time: 3 hours	Max.Marks: 70
	(Note: Assume suitable data if necessary	
	PART-A	
	Answer all TEN questions (Compulsory Each question carries TWO marks.	7) 10x2=20M
	Each question carries 1 wo marks.	10X2-201V
1. W	Which cipher block modes of operations doesn't require decryption me	odule? 2 N
2. L	ist out different security services.	2 N
3. D	Differentiate MAC and Hash code.	2 N
4. W	What are the applications of Elliptical curve cryptography?	2 N
5. W	Vhat is a public-key certificate?	2 N
6. W	Why is R64 conversion useful for an e-mail application?	2 N
7. W	What is the difference between SSL Connection and SSL State?	2 1
8. W	Vhat services are provided by IPsec?	21
9. W	What is the role of compression in the operation of virus?	2 N
	What are the two common techniques used to protect a password file?	
	PART-B	
An	nswer the following. Each question carries TEN Marks.	5x10=50M
11.A).	i) Categorize security Mechnaisms and explain them in detail.	6
	ii) Why Decryption module is not required in all cipher block mod	
	OR	os or operation.
11. B).	i) How play-pair cipher technique is secure in message? Explain w	ith an example.
	ii) Illustrate where encrypted devices can be placed? and why?	51
12. A).	State the value of the length field in SHA-512 if the length of the	message is i) 1919 bits 10
	ii) 1920 bits iii) 1921 bits iv) 1922 bits and v) 1923 bits.	10.
	OR	
12. B).	i) The Elliptical cryptosystem parameters are E_{11} (1,6) and $G = n_B = 7$. Find B's Public Key P_B .	(2,7). B's secret key is 51
	ii) Explain RSA Algorithm in detail.	51
13. A).	Explain how authentication can be implemented in Kerberos ve authentication dialogue.	rsion 4 with a detailed 10
	OR	
13. B).	Draw a neat sketch of X.509 Certificate format and X.509 CRL detail.	format and explain in 10
		(P.T.O)

14. A).	Explain the ESP header format and discuss the scope of ESP Encryption and Authentication.	TOM
	OR	
14. B).	Illustrate step-by-step procedure of SET in detail with an example.	10M
15. A).	i) What are the typical phases of operation of a virus or worm?	5M
	ii) What is the difference between a packet filtering firewall and a stateful inspection firewall?	5M
	OR	
15. B).	What is Intruder? Explain Intrusion Detection system with example.	10M



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B. Tech V Semester Regular/Supplementary Examinations December-2022

	Course Name: DATA WAREHOUSING & DATA MINING (Computer Science & Engineering) rate: 09.12.2022 AN Time: 3 hours	Max.Marks: 70
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1. V	What is OLAP?	2.14
2. I	List out the operations of OLAP.	2 M
	What is data preprocessing?	2 M
	ist the five primitives for specifying a data mining task.	2 M
	Define apriori rule.	2 M 2 M
6. E	Define single level association rule.	2 M
	Define Tree pruning.	2 M
8. D	Define gini-index	2 M
9. L	ist the metrics for evaluating performance of classifiers	2 M
	Define K-means partitioning.	2 M
		2 141
4-	PART-B	
Al	nswer the following. Each question carries TEN Marks.	5x10=50M
11.A).	Difference between OLTP and OLAP.	10M
	OR	10111
11. B).	Explain star schema, snowflake and fact constellation schema with example	es. 10M
12. A).	Explain KDD process with neat diagram.	10M
	OR	
12. B).	Explain data transformation techniques with suitable examples.	10M
13. A).	Explain FP growth algorithm with an example.	10M
	OR	
13. B).	Consider the Data set D. Given the minimum support2, find frequent applying apriori algorithm on this dataset.	item sets by 10M

Transaction ID	Items
100	A,C,D
200	B,C,E
300	A,B,C,E
400	B.E

(P.T.O..)

14. A).	Explain about basic decision tree induction algorithm with an example	10M
	OR	
14. B).	How does the Naïve Bayesian classification works? Explain in detail.	10M
15. A).	Explain hierarchical clustering techniques.	10M
	OR	
15. B).	Write K-means clustering algorithm with an example.	10M



CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech V Semester Regular/Supplementary Examinations December-2022

•	Course Name: SOFTW	ARE TESTING METHODOLOGIES	
1	Date: 09.12.2022 AN	(Computer Science & Engineering) Time: 3 hours Max Mar	des 70
		(Note: Assume suitable data if necessary) PART-A	KS: /U
		Answer all TEN questions (Compulsory)	
		The state of the s	2=20M
1.	What are integration bugs	3?	2 M
	Define Testing.		2 M
	Define Data flow graph.		2 M
4.	Define Dicing.		2 M
5.	Define Path Product with	an example.	2 M
	Define Path Sum with an	example.	2 M
7.	Define Decision Table.		2 M
8.	Illustrate the concept of st	tate graph with an example.	2 M
9.	Illustrate how a graph can	be represented in Matrix form.	2 M
10.	List out various properties	s of relations.	2 M
		PART-B	
A	answer the following. Ea	t and the second	=50M
11.A)	. Define Bug. Identify a	and analyze the consequences of bugs.	10M
		OR	10111
11. B)	. Construct the role of c	ontrol flow graph in testing software.	10M
12. A)	. Illustrate the compone	nts of the data flow model.	10M
		OR	TOW
12. B)	. Identify the componen	ts of transaction flow testing and explain.	10M
13. A)	. Compare and contrast	nice and ugly domains.	10M
		OR	10111
13. B)	. Construct the role of p	ath expression and path predicates in testing.	10M
14. A)	. Analyze how to identigraphs.	ify equivalent states and how to merge them in representing state	10M
		OR	
14. B)	. Build a graph to repres	ent the path expression: ab(cde)*(f+kba)*(a+acd)*(g+c)*.	10M
15. A)	. Illustrate node reduction	on algorithm with suitable example.	10M
		OR	
15. B).	Explain the process to	be followed when doing testing using WinRunner.	10M



H.T No:

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B.Tech V Semester Regular/Supplementary Examinations December-2022

	Date: 12.12.2022 AN	(Common for CSE & IT) Time: 3 hours	Max.Marks: 70
		(Note: Assume suitable data if necessary) PART-A	
		Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1.	State the two modes of ope	ration and the bit used to identify them.	2 N
2.		ided by the Operating Systems.	2 N
3.	List any two advantages of	cooperating processes.	2 N
	State the criteria on which	scheduling algorithms are evaluated.	2 N
	State the critical section pro	oblem.	2 M
i.	Compare the two types of S	Semaphores used for synchronization.	2 M
	Explain the fragmentation	problem in memory allocation.	2 M
	Write short notes on Segme	entation.	2 M
	List the two types of file ac	cess methods used.	2 M
0.	Why protection is important	t in operating systems?	2 M
		PART-B	
	Answer the following. Each	question carries TEN Marks.	5x10=50M

i) Explain briefly about Real Time Systems. State the essential properties of Time sharing 5M and distributed operating systems. ii) Explain any two operating system structures in detail.

5M

Consider the following snapshot of a system with seven processes, arrival times and burst 10M times given.

Pnumber	AT	ВТ
P1	0	8
P2	1	6
P3 P4	2	5
	3	3
P5 P6	3	4
P6	4	1
P7	5	2

Draw the Gantt Chart representations for Non-preemptive SJF and Preemptive SJF algorithms. Calculate the average Turn Around Time for both the algorithms. Compare Average Waiting time of Preemptive SJF with that of FCFS Scheduling algorithm.

(P.T.O..)

- Interpret why IPC is important and how is it implemented in Operating Systems. Explain
 Shared memory model for IPC in detail.
- 13. A). Explain Deadlock Avoidance using Banker's algorithm with the following

10M

- i) Data Structures
- ii) Safety Algorithm
- iii) Resource Request Algorithm
- iv) Find the needed resources for every process?
- v) Is the system being safe or not?

	Allocation			Ma	X			Av	vailable			
	A	В	C	D	A	В	C	D	A	В	C	D
P0	0	0	1	2	0	0	1	2	1	5	2	0
P1	1	0	0	0	1	7	5	0				<u> </u>
P2	1	3	5	4	2	3	5	6			-	-
Р3	0	6	3	2	0	6	5	2			-	-
P4	0	0	1	4	0	6	5	6				-

- Explain how Semaphores could be used to solve the Bounded Buffer problem and Dining Philosophers problem.
- Discuss the performance of Demand Paging. Illustrate the steps involved in handling a 10M Page Fault.

OR

14. B). Consider the following page-reference string:

10M

01362452503125410

How many page faults would occur for the LRU and optimal replacement algorithms, assuming 4 frames? Remember that all frames are initially empty, so your first unique pages will all cost one fault for each. Also, compute Hit ratio of each algorithm.

15. A). Explain various disk free space management methods with examples.

10M

OR

Describe briefly about the three file allocation methods highlighting the advantages and limitations of each method.



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B. Tech V Semester Regular/Supplementary Examinations December-2022

Date: 14.12.2022 AN	(Common for CSE & IT) Time: 3 hours Max.Mark	s: 70
Date: 14.12.2022 71.1	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory)	3.70
	Each question carries TWO marks. 10x2=	=20M
Give one definition of	of AI.	2 M
2. Define intelligent age	ent.	2 M
3. What is CSP?		2 M
4. What is binary constr	raint?	2 M
Define universal qua	ntifiers.	2 M
Define semantic netv	vorks.	2 M
What is blocks world	I problem?	2 M
Define critical path in	n job scheduling problems.	2 M
What is unsupervised	I learning method?	2 M
10. What is a monte carle	o algorithm?	2 M
	PART-B g. Each question carries TEN Marks. 5x10= nitions of Artificial intelligence system and justify the statement are + Program.	= 50M 10M
	OR	
	nited search with time and space complexity and how heuristic functions e 8 Puzzle problem.	10M
12. A). Solve the constra	int satisfaction problem.	10M
	T W O	
	T W O	
	(+)	
	F O U R	
	I O O K	

OR

12. B). Solve the Wumpus world problem with neat diagrams using Logic programming 10M (prepositional logic or predicate logic).

(P.T.O..)

13. A).	. and solve the problem using resolution proof.	10M
	S1: Everyone who loves all animals is loved by someone.	
	S2: Anyone who kills an animal is loved by no one.	
	S3: Jack loves all animals.	
	S4: Either Jack or Curiosity killed the cat, who is named Tuna.	
	S5: Did Curiosity kill the cat?	
	OR	
13. B).	Explain Semantics of Bayesian networks with example.	10M
14. A).	Discuss How to solve the planning problems with state space search.	10M
	OR	
14. B).	Discuss hierarchical planning approach with an example.	10M
15. A).	How to represent conditional distributions efficiently with example.	10M
	OR	
15. B).	Apply Inference using full joint distribution for the Figure 13.3 and find (i) P(cavity or toothache)	10M
	(ii) Marginal probability of Cavity	
	(iii) P(cavity toothache)	
	(iv) P(no cavity toothache)	

	too	thache	$\neg toothache$	
	catch	$\neg catch$	catch	¬catch
cavity	0.108	0.012	0.072	0.008
$\neg cavity$	0.016	0.064	0.144	0.576

Figure 13.3 A full joint distribution for the Toothache, Cavity, Catch world.



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B.Tech V Semester Regular/Supplementary Examinations December-2022

	Course Name: KNOWLEDGE MANAGEMENT	
	(Common for ECE, CSE, IT & CSC)	
	Max.N	Iarks: 70
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory)	
	Each question carries TWO marks.)x2=20M
1.	Define Knowledge Leverage.	234
2.	What is Data Information?	2 M
3.	What do you mean by Knowledge Management System?	2 M
	What is Data Warehousing?	2 M
5.	Write a short note on relationship with Knowledge Management to Service sector.	2 M
6.	List out the challenges faced by service sector industry.	2 M
7.	What is Knowledge Capital?	2 M
8.	What is Physical Capital?	2 M
9.	What is Business Intelligence?	2 M
	Define Information Architecture.	2 M
		2 M
	PART-B	
A	answer the following. Each question carries TEN Marks. 5x	10=50M
11.A).	. "Technological advances have greatly helped the growth of Knowledge Management although the field has not yet reached full maturity". Elucidate the statement.	nt, 10M
	OR	
11. B)	. What is Knowledge Leveraging? Explain its key elements in detail.	10M
12. A)	. Explain the role of Information Technology in Knowledge Management Systems.	10M
	OR	TOIVI
12. B).	The stages involved in developing knowledge Management Systems.	10M
13. A).	Explain the role of Knowledge Management in Service industry.	10M
	OR	TOW
13. B).	Explain the role of Knowledge Management in Manufacturing Industry.	10M
14. A).	Explain the steps involved in Kivi Process.	10M
14 D)	OR Company of the control of the con	
14, B).	Explain any five points of difference between Knowledge Capital and Physical Capital.	10M
15. A).	Discuss Roadblocks to success in relation to Knowledge Management.	10M
	OR	TOW
15. B).	Explain the 10-step process involved in KM Road Map to Amrittiwana.	10M



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B.Tech V Semester Regular/Supplementary Examinations December-2022
Course Name: BASICS OF INSURANCE & TAYATION

	Course Name: BASICS OF INSURANCE & TAXATION	DC1-2022
	(Common for EEE, ECE, CSE, IT & CSM)	
	Date: 19.12.2022 AN Time: 3 hours	Max.Marks: 70
	(Note: Assume suitable data if necessary) PART-A	4
	Answer all TEN questions (Compulsory)	
	Each question carries TWO marks.	10x2=20M
1.	What are different personal general insurance products?	2.1
2.	Discuss pensions and annuities.	2 M
3.	Examine claim management.	2 M
4.	What is third party administration?	2 M
5.	Outline direct and indirect taxes.	2 M
6.	Distinguish between tax planning and tax evasion.	2 M
7.	What is income exempt u/s 10 of the I.T. Act?	2 M
8.	What are permissible deductions under chapter VI of I.T?	2 M
9.	Define advance payment of tax.	2 M
	What is tax collection at source?	2 M
		2 M
	PART-B	
A	Answer the following. Each question carries TEN Marks.	5x10=50M
11.A)). Explain the principles of life insurance.	100.4
	OR	10M
11. B)		10M
12. A)		
12.71)	settlement.	10M
12. B)	OR	
12. 13). Summarize re-insurance in life insurance, retention limits and methods of re-in	surance. 10M
13. A)). Discuss tax structure and its role in Indian economy.	
	OR	10M
13. B).		
		10M
14. A).	Examine income from business, income from house property and income sources.	from other 10M
	OR	
14. B).	. What is income act? Explain exemptions and deductions under the income tax a	act. 10M
		TOIVI
15. A).	. Interpret computation of income in individuals with types of assessment.	10M
	OR	TOW
15. B).	Examine filing of return, e-filling and advance payment of tax.	10M
		TOIVI



(UGC AUTONOMOUS)

Co	B.Tech V Semester Regular Examinations December-2022 Durse Name: BUSINESS ETHICS & CORPORATE GOVERNANCE	
	(Common for ECE, CSE, CSC & CSM)	
Da	1 10 10 2020 137	Marks: 70
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1. W	/hat is ethical behavior?	2 M
2. W	/hat is nature of ethics?	2 M
3. W	/ho is ethical manager?	2 M
4. W	/hat is code of ethics?	2 M
5. W	Vhat is software piracy?	2 M
6. W	/hat is security threat?	2 M
7. W	hat are the obligations of the corporations to the market?	2 M
8. W	hat are the expectations of society from a corporation?	2 M
9. W	hat you mean by Mitigate Risk?	2 M
10. D	efine Corporate Governance.	2 M
An	PART-B aswer the following. Each question carries TEN Marks.	5x10=50M
11.A).	Discuss the significance of ethics in business.	10M
	OR	
11. B).	Discuss various principles of ethics and is implications in the modern business world.	10M
12. A).	Explain the unethical practices in Marketing.	10M
	OR	
12. B).	In situations like recessions, explain the role of HR manager in terms of ethical practic	ce. 10M
13. A).	How the Criminals Plan the Attacks? Explain with examples?	10M
	OR	
13. B).	Discuss about digital signatures in Cyber security.	10M
14. A).	What are the various functions of the Board and CEO?	10M
	OR	
14. B).	Discuss the future of Corporate Governance in India.	10M
15. A).	Explain the Core Elements of the OECD Corporate Governance Principles. OR	10M
15. B).	Who can seek remedies against oppression and mismanagement of company? On v	what 1034
	grounds can relief be granted in an application seeking relief?	what 10M



(UGC AUTONOMOUS)

	B.Tech (Minors in DS) V Semester Regular Examinations Dec Course Name: DATA SCIENCE USING R	ember-2022
	(Common for ECE, CSE, CSC & CSM)	
Ī	Date: 19.12.2022 AN Time: 3 hours	Max.Marks: 70
	(Note: Assume suitable data if necessary)	Manifalks. 70
	PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1.	Differentiate Big Data and Data Science Hype.	2 M
2.	State Statistical Inference.	2 M
3.	Define symmetric attributes.	2 M
4.	State and write the formula for mean and median.	
	How do you read a CSV file in R?	2 M
	How to create an empty Data Frame in R?	2 M
	Write an R program to display days of a week.	2 M
	What is function scoping?	2 M
	Write the definition of histogram.	2 M
		2 M
10. 1	Define icon-based visualization technique.	2 M
	PART-B	
<u>A</u>	nswer the following. Each question carries TEN Marks.	5x10=50M
11.A).	i) Explain the Drew Conway's Venn diagram of data science.ii) Write a R Program to Find the Sum of natural numbers.	5M 5M
	OR	3141
11. B).	, and types in it.	5M
	ii) Write about conditional statements in 'R' with example.	5M
12. A).	 Suppose that the data for analysis includes the attribute age. The age valuables are (in increasing order) 13, 15, 16, 16, 19, 20, 20, 21, 22, 22, 25, 33, 33, 35, 35, 35, 35, 36, 40, 45, 46, 52, 70. (i) What is the mean of the data? What is the median? 	ues for the data 10M 25, 25, 25, 30,
	(ii) What is the mode of the data? Commont on the data?	
	(ii) What is the mode of the data? Comment on the data's modality trimodal, etc.).(iii) What is the midrange of the data?	(i.e., bimodal,
	(iv) Can you find (roughly) the first quartile (Q1) and the third quartile (Q3)) of the data?
	(v) Give the five-number summary of the data.	
12. B).	Write about different types of attributes with an example.	
	y poor authorites with an example.	10M

13. A).	i) Explain different ways of create an empty matrix with an example.	5M
	ii) Explain with examples on vector arithmetic.	5M
	OR	
13. B).	program to create a Data frame flaving details of 5 employees	5M
	ii) Write a command to retrieve data from 2,3,4 row from employee data frame.	5M
14. A).	Explain different types of relational operators in R programming.	10M
	OR	10111
14. B).	Write the different types of flow control statements in R programming.	10M
15. A).	Explain attribute subset selection with a neat diagram.	10M
	OR	
15. B).	Describe the geometric-projection visualization techniques.	10M

H.T No: R18 Course Code: A30532



CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

B.Tech (Honors) V Semester Regular Examinations December-2022

Course Name: SOFTWARE PROJECT MANAGEMENTS

	Course Name: SOFTWARE PROJECT MANAGEMENT (Computer Science & Engineering)	
D	ate: 19.12.2022 AN Time: 3 hours	Max.Marks: 70
	(Note: Assume suitable data if necessary) PART-A	
	Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1.	What Constitutes a Good Software Cost Estimate?	2 M
2. (Compare and Contrast Commercial Components and Custom Software.	2 M
	Define Round-trip Engineering.	2 M
4. V	What is a Deployment Set?	2 M
5. V	What is the Goal of Life Cycle Objective Milestone?	2 M
	Define Work Breakdown Structure.	2 M
7. I	Define SEPA.	2 M
8. V	What is a Macro Process?	
9. I	Define Earned Value.	2 M
	What are the two modes in which metrics can be displayed?	2 M
	PART-B	2 M
Aı	nswer the following. Each question carries TEN Marks.	5x10=50M
11.A).	Explain Pragmatic Software Cost Estimation in detail.	10M
	OR	
11. B).	Discuss in detail to Improve the Team Effectiveness and Auto Environments.	omation in Software 10M
12. A).	Explain Architecture View and Description with a suitable diagram.	10M
	OR	TOW
12. B).	parameter of iteration.	10M
13. A).	of the station.	5M
	ii) Analyze the Periodic Status Assessments.	5M
	OR	
13. B).	How Forward Looking and Top-Down Approach helps in Cost and the Process? Justify.	Schedule Estimating 10M
14. A).	What are the activities of Software Architecture and Development tear	m? 10M
	OR	III.
14. B).	Discuss about automation building blocks.	10M
15. A).	i) Explain Quality indicators in detail.	514
	ii) What are the basic characteristics of a good metric?	5M 5M
	OR	JIVI
15. B).	Explain top ten software management principles.	10M