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	На	II Ticket Number :									D 17	
Code: 7P2B44												
	M.C.A. IV Semester Supplementary Examinations October 2020										r 2020	
		Data Mining										
	M	ax. Marks: 60 Answer all five un	its by cho	oosing		estion	from e	ach u	nit (5 x		Time: 3 Hours 60 Marks)	
	,	NA/le at in plate policie	a O Evalai:	. 46	UNIT-							
1.	a)	What is data mining	•		•		•	-::		al: a a : .a.	ila wita . af alata O	
	b)	Explain various typ	es or data	a? vvna			ires of	sımılar	ity and	aissim	liarity of data?	
2.		Explain data mining	g tasks wi	th an ex)R ?						
3.	a) b)	Explain the genera Explain the rule-ba	• •		? Briefl	lassifica y explai	-			inducti	on?	
4.		OR Write Bayes theorem. Explain classification by using the Bayes theorem.										
5. 6.		Analyze the steps in Apply an FP growth example.		·	C	ets using					with a suitable	
7.		Explain the basic c	oncepts (of cluste	UNIT-		ans tec	chnique	e?			
٠.		Explain the basic c	onoopto c	, oldoto	_)R	x110 t00	milique				
8.		Describe DBSCAN	algorithm	n for clu								
					UNIT-							
9.		Mention the reason	is for ano	malies/		-	ı the ar	nomaly	detect	ion wit	h an example.	
10.		Discuss about Clus	stering ba	sed tecl)R in detec	tion of	anoma	alies			

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MCA IV Semester Supplementary Examinations October 2020

Pata Communications & Computer Networks

		Data Communications & Computer Networks	
	Ма	x. Marks: 60	ime: 3 Hours
/	Ansv	ver all five units by choosing one question from each unit (5 x 12 = **********	= 60 Marks)
		UNIT-I	
1.	a)	Describe the OSI reference model with a neat diagram.	8M
	b)	List and explain the transmission technology used in computer networks	4M
		OR	
2.	a)	Write short note on ATM reference model	6M
	b)	Discuss the design issues that occur in computer networks	6M
		UNIT-II	
3.	a)	Give the transmission Frame for the data frame 10100001 using 10011	6M
	b)	List and explain the different methods used for framing.	6M
		OR	
4.	a)	Explain CSMA protocols in detail.	8M
	b)	Write short note on Back off algorithm.	4M
		UNIT-III	
5.	a)	Describe Distance-Vector routing algorithm	7M
	b)	Explain design issues of Network layer	5M
		OR	
6.	a)	Write short note on IP addresses and subnets.	6M
	b)	Describe OSPF in internet control protocol	6M
		UNIT-IV	
7.	a)	Describe the TCP service model.	6M
	b)	With the help of a neat diagram explain the TCP connection manager modelling.	nent 6M
		OR	
8.	a)	Explain Remote Procedure Call in UDP.	6M
	b)	What is Code Division Multiple Access (CDMA)? Explain its transmission	6M
		UNIT-V	
9.		Explain in detail RSA algorithm with an example.	12M
		OR	
10.	a)	Explain Leaky Bucket Algorithm	6M
	b)	Describe in brief Nagle's Algorithm	6M

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Code: 7P2B41

M.C.A. IV Semester Supplementary Examinations October 2020

Software Engineering

Max. Marks: 60 Time: 3 Hours Answer all five units by choosing one question from each unit ($5 \times 12 = 60$ Marks) ****** UNIT-I 1. a) Write IEEE definition of software engineering. Describe the nature of software. 6M Describe Adaptive Software Development (ASD) agile model. 6M OR 6M 2. a) Summarize the general principles of software engineering practice b) Illustrate Capability Maturity Model Integration (CMMI). 6M UNIT-II Describe Waterfall Model with an example. 3. a) 6M b) Explain the structure of Software Requirements Specification. 6M 4. a) Write briefly about Requirements Elicitation and Analysis. 6M b) Write a short note on Behavioral models. 6M UNIT-III 5. a) Explain the Design Concepts in brief. 6M b) Describe how to Organize the System. 6M **OR** Explain the concept of Modular Decomposition Styles. 6M 6. a) Write the Objects and Classes in Object-Oriented Design. 6M UNIT-IV 7. a) Differentiate between verification and validation. 6M 6M b) Describe the principles of system and component testing. Describe strategies for generating system test cases. 6M 8. a) Discuss software quality assurance elements, tasks, goals and metrics. 6M b) UNIT-V 9. a) Explain briefly Project Planning. 6M b) Write a brief note on Risk Management. 6M OR Explain the concept of Software Productivity. 6M 10. a) Describe briefly about COCOMO II Model. 6M

	Ha	Il Ticket Number :
		R-17
	Coc	de: 7P2B43 M.C.A. IV Semester Supplementary Examinations October 2020
		Unix & Network Programming
	Μ	ax. Marks: 60 Time: 3 Hours
		Answer all five units by choosing one question from each unit ($5 \times 12 = 60$ Marks)
		UNIT-I
1.	a)	Explain the architecture of UNIX with neat diagram
	b)	Summarize grep command with all options
	-,	OR
2.		Explain how to handle ordinary files.
		UNIT-II
3.	a)	Explain control structures in shell programming
	b)	Explain how a shell variable can be initialized and write a shell script program to find the
		factorial of a given number
		OR .
4.	a)	Explain chmod and chown commands with examples
	b)	Explain different types of files in LINUX
		UNIT-III
5.	a)	Briefly describe about process, child process and orphan process
	b)	Explain setjmp and longjmp, getrlimit, setrlimit functions
	,	OR
6.	a)	Explain exec family with example
	b)	Explain different types of wait functions
		UNIT-IV
7.	a)	Explain various types of signals
	b)	Explain sigsetjmp and siglongjmp functions
		OR
8.	a)	Explain role of kernel for supporting various signals
	b)	Explain various types of signals
0		UNIT-V Explain system calls for POSIX and memory based semaphores
9.		OR
10.		Explain socket options for TCP and UDP
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