Paper / Subject Code: 37311 / Data Mining & Business Intelligence

TECIT) | SEM VI | R-19 | FH-2024 | 15-05-2024

	Du	ration: 3hrs		.25				[Max	Marks: 80]	
N.B. :		estion No 1								
		tempt any th			of the	remair	ning five.	***********		1
		l questions ca			J. P.	900				
	(4) As	sume suitab	le data, if r	equired	and s	state it	clearly.			
Q.1										[20]
	A	List out stage	es in Data N	lining v	vith ne	at label	lled diagran	1.		
	В	A sales firm	has reporte	d follov	wing s	ales fig	ures for FY	23-24	(i.e. March	
		23 to Feb 24			790		Anthropy Control of the Control of t			
		2300, 435, 6								
		Show how to								
	C	With an exa	mple expla	in Star	Versu	s Snow	flakes sche	ma in	dimensional	
		modelling			T 1					
	D	What is marl								[10]
Q.2	A	Draw and lis								[10] [10]
	В	Consider we	nave age of	1 33 par	neipai	nts in a	survey give	n to us	III sorted	[10]
		order. 5, 10, 13, 13	15 16 16	20.20	20.2	1 22 2	2 22 25 2	5 25 2	5 30 30	
P		33, 33, 33, 3						J, 2J, 2	5,50,50,	
Sm.	V	Draw histog						Explai	n the effect	
***************************************		of bin size of								
03	A	What is OLA					tions with n	eat labe	eled diagram	[10]
				, comment						
	В	Explain wor	king of deci	sion tre	e base	d classi	fier? With a	an exan	nple explain	[10]
is Gas	· ·	steps for ind	ucting tree t	ising II	3 algo	orithm.	2	42		
Q.4	A		ori algorith	m to ide	entify	the freq	uent item-s	ets in t	he following	[10]
2	- ()	database.			-			r -	***************************************	
and the second	1	Tid	a	b	c	d	е	f	g	
		Îtems	1,2,4,5,6	2,3,5	1,2,	1,2,4,	1,2,3,4,5,	2,3,4	1,2,4,5	
					4,5	5	6		STATE OF THE STATE	
		Consider M	inimum Su	pport as	75%	and co	onfidence a	t 85%	level. Write	
Carlo San	Consider Minimum Support as 75% and confidence at 85% level. Write down all strong association rules									
	В	What is an o	utlier? Exp	ain vari	ous m	ethods	for perform	ing out	lier analysis.	[10]
)	Charles Control	27	£/			0				
Q.5	Á	Explain step	os in hierai	chical	Cluste	ring al	gorithm. P	erform	hierarchical	[10]
a l	Y	clustering or							ace	
, and a second		(2,3), (5,4),				(6,3), (1	,9), (3,6), (4	4,8).		
		Consider yo	u require 3	clusters	in the second	Acres 1				F107
	В	Explain min		ilevela	ssocia	tion rule	es and Mult	ıdımen	sional asso-	[10]
~	27	ciation rules		~~~~~.	Y 4	1				[20]
Q.6	× .	Write short			Any 4).				[20]
	A	Navie Baye	47.16×							
	В	Boot Strapin	_							
E S.	C BIRCH Algoirthm.									
	D BI Architecures E Types of attributes									
j.	E	Types of all	Houses	may be						
		£V.	3	****	****	*****	*****			
		m 1, pr								

Paper / Subject Code: 37312 / Web X.O

E-IT/SEM-VI/R-19/FH-2024/17/05/2024

9 p. code: 55030

(3 Hours.)

Marks = 80

NB:

- 1. Question No. 1 is compulsory and solve any THREE questions from remaining questions.
- 2. Assume suitable data if necessary.
- 3. Draw clean and neat diagrams.

Q1.		Attempt any four	
	a.	Compare and contrast Web 1.0, Web 2.0 and Web 3.0?	5
	b.	What is Content Management System (CMS)	5
	c.	Explain steps involved in Web Analytics Process.	5
	d.	State the advantages and disadvantages of Joomla.	5
2 m	e.	State four significant N-Triples language.	5
Q2.	a.	What does REST Stand for? Explain REST API with a basic flow diagram.	10
	b.)	Explain the following built in Angular JS Directives with example. a) ng-app b) ng-init	10
Q3.	a.	Discuss any 5 built-in helper functions in AngularJS.	10
*	b.	Explain Flask templates with an example.	10
Q4	a.	Explain the working of MongoDB and Applications of MongoDB.	10
	b.	With the help of diagram explain process involved in AJAX Asynchronous Model.	10
Q5	a.	What are the HTTP Methods provided by Python Flask?	10
	b.	Explain Drupal's architecture with its advantages.	10
Q6	a.	Explain different characteristics of RIA in details.	10
	b.	Discuss definite and indefinite loops with suitable examples in Typescript.	10

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Paper / Subject Code: 37313 / Wireless Technology

TE-IT | SEM-VI | R-19 | FH-2024 | 22-05-2024

Oprode: 55935

Time: 3 HRS Marks: 80	,]
Note: 1. Q. No1 is compulsory	
2. Solve any three questions out of the remaining five	
 Q.No1 Solve any four a) Give the Features of VANET and MANET b) Compare Infrastructures based Network and an Adhoc Network c) Outline the method that supports mobility in CISCO Unified Wireless Network d) Explain WEP and the security standard used e) Explain LoraWAN 	(20)
2	
a. Explain the spread spectrum and briefly outline DSSS and FHSSb. Illustrate and explain GSM architecture with its interfaces. Compare GSM and UMTS	(10) (10)
3. a. Outline the WSN architecture along with neat diagrams. State the various issues in WSN	
b. Illustrate the RF site survey process and their importance in the design process of designing a wireless network with Lightweight AP and WLC	(10)(10)
4. a. State different features of Zigbee and explain its protocol stackb. Draw and Explain Wi-Fi Architecture and Protocol Architecture	(10) (10)
a. Draw and explain OFDMA with a neat diagramb. State the Features of Wi-MAX. Draw and explain the architecture of Wi-MAX	(10) (10)
6.	
a. Explain UMTS and GSM security	(10)
b. Compare and contrast 1G to 5G based on the technological differences and advancements. Write a short note on Massive MIMO	(10)

Paper / Subject Code: 37318 / Ethical Hacking and Forensic (DLOC -II) TE IT sem VI | R-191 29/05/2024 Time: 3 Hours Marks: 80 vode: 56053 N.B.: (1) Question No.1 is compulsory. (2) Attempt any three questions from the remaining five questions. (3) Make suitable assumptions wherever necessary but justify your assumptions. (a) Explain Hackers, Crackers, Phreakers. 05 (b) Explain role of Computer Security Incident Response Team 05 (c) What are different forensic image formats. 05 (d) What is Redundant Array Inexpensive Disk 05 (a) Describe the method for recovering deleted files from windows system. 10 (b) Write Malware handling in detail. 10 a) What is intrusion detection system? Explain. 10 (b) What is file system and explain forensic analysis of file system. 10 (a) Explain various guidelines for report writing. 10 b) Explain in detail the task of hardware forensic tool. 10 (a) Write a short note on different types of scanning tools. 10 (b) Explain different types of digital forensics? 10 Write a short note on (Any Two) 20 (1) Illustrate investigation of web browser. (2) Describe forensic duplication of Hard drive. (3) Explain the steps in router investigation.

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