Hall	Tick	et Number :	
Code	: 5G	R-15	
		n. I Semester Regular & Supplementary Examinations November 2	.018
		Data Warehousing and Data Mining	
		(Information Technology) arks: 70 Time: 3 Hover all five units by choosing one question from each unit (5 x 14 = 70 Marks)	ours

1.	a)	Define Data Mining and explain different Data Mining functionalities.	7M
	b)	Describe the architecture of typical data mining system with block diagram.	7M
	,	OR	
2.		Discuss the following in detail with suitable illustration:	
		(I) Discretization and concept hierarchy generation.	7M
		(II) Data transformation.	7M
		UNIT-II	
3.	a)	Explain about Data Warehouse schemas in detail.	7M
	b)	Discuss the various OLAP operations in the multidimensional data model.	7M
		OR	
4.	a)	Write a short note on Mining Multidimensional Association Rules from Relational Databases and Data Warehouses.	ı 7M
	b)	Define a frequent set. Define an association rule.	7 IVI 7M
	D)	UNIT-III	<i>i</i> 101
5.	a)	Discuss about the issues regarding Classification and Prediction.	7M
•	b)	Write and explain Backpropagation algorithm.	7M
	,	OR	
6.	a)	Briefly outline the major steps of decision tree classification.	7M
	b)	Why is tree pruning useful in decision tree induction? What is a drawback of	:
		using a separate set of tuples to evaluate pruning?	7M
		UNIT-IV	
7.	a)	What is Cluster analysis? What are the requirements for cluster analysis?	7M
	b)	What is Outlier Discovery? Discuss two applications of Outlier Discovery.	7M
		OR	
8.		Explain k-means partitioning method. Write k-means algorithm. Discuss about k-means partitioning drawbacks.	t 14M
		UNIT-V	
9.	a)	What are different types of web mining?	7M

b) How is web usage mining different from web structure mining and web content mining?

7M

OR

10. a) What are different tasks of time-series mining?

7M

b) Describe different similarity measures of time-series data.

7M

Hall Ticket Number :											R-15
Code: 5G356							K-13				

III B.Tech. I Semester Regular & Supplementary Examinations November 2018

Microprocessors and Interfacing

7M 7M 7M 4M 0M
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		et Number : R-15					
Code:		55 I Semester Regular & Supplementary Examinations November 201	 _2				
III D.1C	CII.	Software Testing Methodologies	O				
		(Information Technology)					
		rks: 70 Time: 3 Hour	S				
Ar	iswe	er all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks) *********					
		UNIT-I					
1.	a)	Define Dichotomies? What way it is useful in Software methodologies	7M				
	b)	Explain briefly about various Bugs?	7M				
		OR					
2.	a)	Sketch the model for testing process and explain how various aspects are considered for testing using this model	5M				
	b)	Compare and contrast between block box testing and white box testing	9M				
		UNIT-II					
3.	a)	What are predicates explain with an example	7M				
	b)	Construct path sensitizing with an example	7M				
		OR					
4.		What is meant by statement coverage(C1) and branch coverage(c2) explain					
with an example how to select enough paths to achieve c1+c2.							
		UNIT-III					
5.	a)	Compare Nice and ugly domains	5M				
	b)	Explain domains and interfaces testing	9M				
		OR					
6.	a)	What are strategies in dataflow testing	7M				
	b)	Define Domains and paths	7M				
_		UNIT-IV					
7.	a)	How the flow anomaly is detected	5M				
	b)	Explain reduction procedure briefly	9M				
		OR					
8.		Explain Logical based testing overview	14M				
_		UNIT-V					
9.	a)	Define state and explain one-time ZCZC sequence detector in state graph	7M				
	b)	Explain matrix of graph with an example	7M				
		OR					

transitive closure and intersection matrices

Discuss the partition algorithm with a case study and also represent it relation,

10.

14M

Hall	Tick	et Number :	
Code		R-15	
		I Semester Regular & Supplementary Examinations November 20 Automata and Compiler Design (Information Technology)	 18
	_	rks: 70 Time: 3 Hou all five units by choosing one question from each unit (5 x 14 = 70 Marks *****	_
		UNIT-I	
1.	a)	Construct a Finite Automata equivalence to the regular expression (0+1)*(00+11)(0+1)*	7M
	b)	Consider a language L^* , where $L=\{ab,cd\}$ with $=\{a,b,c,d\}$.	
		 i. Write all words in L* that have six or less letters/symbols ii. What is the shortest string in * that is not in the language L* 	7M
2.	a)	OR Construct an NFA that accepts the set of all strings over {0,1} that start with	
۷.	a)	0 or 1 and end with 10 or 01.	7M
	b)	Construct NFA for recognizing the language generated by the regular expression. (a+b)*abb . Check the acceptance of the string abababb.	7M
		UNIT-II	
3.	a)	What do you mean by ambiguity in context free grammars? Give an example for ambiguous grammar. Show that the grammar in your example is ambiguous.	7M
	b)	Consider following grammar S -> (L) a , L -> L, S S	
		Draw parse trees for the sentences i) (a, (a,a)) ii) (a, (a,a), (a,a)) OR	7M
4.		What is a recursive descent parser? Construct recursive descent parser for the following grammar. Show the moves of the parser for the sample strings. $S\rightarrow 0B/1A$ $A\rightarrow 0/0S/1AA$ $B\rightarrow 1/1S/0BB$	14M
		UNIT-III	14101
5.	a)	Briefly explain the LR parsing algorithm.	7M
	b)	Construct LALR parsing table for the grammar E→E+T/T, T→T*F/F,F→ (E)/id OR	7M
6.	a)	Explain in brief about error recovery in LR parsing	7M
	b)	Differentiate dynamic and static type checking	7M
		UNIT-IV	
7.	a)	Construct Quadruples, Triples and Indirect Triples of the following expression: $I = -J * (K + W)$.	7M
	b)	Write about the advantages of intermediate code. Discuss about three address code with examples.	7M
		OR	
8.	a)	What are self-organizing lists? How can this be used to organize a symbol table? Explain with an example.	7M
	b)	Generate three address codes for the following code segment and write the corresponding triples.	
		for (i=1; i<=10;i++) { $a[i] = a[i+1] * 2$; $b[i] = a[i]$; }	7M

Code: 5G452

UNIT-V

9. a) Distinguish machine dependent and machine independent optimization 7M

b) Explain in detail about the basic blocks and flow graphs. Construct the flow graph for the following code fragment.

```
i = m-1; j = n; v = a[n];
while(1)
{
do
{
i = i+1;
}while(a[i] < v);
do
{
j = j - 1;
\widtharpoonup while(a[j] > v);
if (i >= j)
break;
x = a[i]; a[i] = a[j]; a[j] = x;
x = a[i]; a[i] = a[n]; a[n] = x;
                                                                                               7M
                                            OR
```

10. a) Construct quadruples and DAG for the following expression:

A = B * -C + B * -C

b) Discuss in brief about register allocation and assignment

9M

5M

Hall Tick	et Number :	
Code: 50	R-15	
	n. I Semester Regular & Supplementary Examinations November 20	018
	Android Application Development	
Мах. Ма	(Information Technology) arks: 70 Time: 3 Ho	ıırç
	ver all five units by choosing one question from each unit (5 x 14 = 70 Marks) ********* UNIT-I	013
1.	Describe the architecture of android with a neat diagram	14M
	OR	
2	Name the steps & Considerations involved for creating your first android application	14M
3.	UNIT-II Recall the life cycle of an activity with a neat diagram and an example	14M
	OR	4 48 4
4.	Relate the life cycle of a fragment with an application	14M
	UNIT-III	
5.	Analyze Linear, Absolute and Relative layouts for creating a personal details form	14M
	OR	
6.	Create and analyze the functionality of Time Picker and Date Picker views for a clock app	14M
	UNIT-IV	
7.	Generate a simple data and save using the shared preferences object?	14M
	OR	
8.	Elaborate content providers and how to use a content provider for managing contact of your phone	14M
9.	Construct a simple Google app to perform the following operations: a) Changing views from satellite view to a map view b) Obtaining Latitude and Logitude of a location c) Geocoding and Reverse Geocoding of a location	4 4 1 1
	d) Add a marker to show your college location OR	14M
10.	Assume music player and Google maps (Drive Option Mode) are running in your phone. Describe the foreground and background tasks by using Threads ***	14M

Hall	Tick	xet Number :	
Code	: 5G	152 R-15	
III B.	Tec	h. I Semester Regular & Supplementary Examinations November 20)18
		Computer Networks (Common to CSE & IT)	
Ma	x. M	Time: 3 Hou	urs
	Ansv	wer all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks)	
		UNIT-I	
1.	a)	List two ways in which the OSI references model and the TCP/IP reference	
	,	model are the same. Also list two ways in which they differ. Discuss the layered	10M
	b)	If a binary signal is sent over a 3-kHz channel whose signal to noise ratio is 20 dB, what is the maximum achievable data rate?	4M
		OR	
2.	a)	What are two reasons for using layered protocols? What is one possible disadvantages of using layered protocols?	7M
	b)	Make a comparison between the fiber optics and copper wire.	7M
		UNIT-II	
3.	a)	An 8 bit byte with binary value 10101111 is to be encoded using an even parity hamming code. What is the binary value after encoding?	5M
	b)	Explain about pure ALOHA and slotted ALOHA	9M
		OR	
4.	a)	With the help of neat diagram, explain the architecture of classical Ethernet.	7M
	b)	In the binary countdown protocol, explain how a lower numbered station may be starved from sending a packet.	7M
		UNIT-III	
5.	a)	Describe the major differences between the ECN method and the RED method of congestive avoidance.	5M
	b)	Explain in detail about the Link State Routing Algorithm with an example.	9M
	,	OR	
6.	a)	What is a Routing protocol? List and explain the principles of routing	9M
	b)	Convert the IP address whose hexadecimal representation is C22F1582 to dotted decimal notation.	5M
		UNIT-IV	
7.		Explain the following transport layer protocols.	14M
		a) Simple protocol	
		b) Stop and wait protocol	
		c) Go-Back-N protocol	
		d) Selective Repeat Protocol	
•	,	OR TODA I () W' II I I I I I I I I I I I I I I I I I	
8.	a)	Draw TCP header format. Write the significance of the components in TCP header format	9M
	b)	Discuss the advantages and disadvantages of Delay Tolerant Networks. UNIT-V	5M
9.	a)	Can a computer have two DNS names that fall in different top level domains?	
•	σ.,	If so give a plausible example. If not explain why not.	9M
	b)	Compare and contrast JPEG and MPEG standard.	5M
10.		OR Write a short notes on the following:	
10.		a) Web Proxies	
		b) Server Farms	
		c) SIP	14M