UOM Exam Second half 2021_Question paper_R2019/Comp/CSDLO5013 -Advance Database Management System/Sem-V

Dear Student,

Please note before you attempt this section of examination:

1. Q1, Q2, Q3 and Q4 carry 20 marks each.

2. This paper contains 20 Marks MCQ and 60 marks subjective section for 150 minutes duration.

3. It is mandatory for all the students to upload their answer papers in a single PDF format only.

4. You have to write Date of Examination, Seat number, Program, Scheme and semester, Subject name, Signature on EVERY PAGE.

5. Remain in the meet with your camera on and you in clear view throughout the duration of the exam.

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Mark only one oval.

- TE3
 TE4
 TE9
- 5. Roll Number *

Solve Questions as per the instructions given separately.

- Please upload a single PDF for Q1 to Q4

- For MCQs Question write Question number & correct option with complete text in option.

- Q2 to Q4 are subjective questions - Solve Questions as per the instructions and marks allotted.

01	Choose the correct option for following questions. All the Questions are		
Q1.	compulsory and carry equal marks		
1.	New lock acquired at		
Option A:	Shrinking Phase		
Option B:	Release phase		
Option C:	Commit phase		
Option D:	Growing Phase		
2.	Which of the following code will return a valid JSON object?		
Option A:	JSON.parse("{'FirstName': 'John', 'LastName':'Doe'}");		
Option B:	JSON.parse('({"FirstName": "John", "LastName": "Doe"})");		
Option C:	JSON.parse("({'FirstName': 'John', 'LastName':'Doe'}))");		
Option D:	JSON.parse('{"FirstName": "John", "LastName": "Doe"}');		
3.	Which of the following will happen after the following sequence of events is completed as		
	per Two Phase Commit (2PC) protocol?		
	TC sends <prepare t1=""> to P1 and P2.</prepare>		
	P1 sends <ready t1=""> to TC.</ready>		
	P2 sends <abort t1=""> to TC.</abort>		
Option A:	TC sends <commit t1=""> to P1 and P2</commit>		
Option B:	TC sends <abort t1=""> to P1 and P2.</abort>		
Option C:	TC sends <commit t1="">, only to participant P1.</commit>		
Option D:	TC sends <abort t1="">, only to participant P2.</abort>		
4.	is used to give comments in XML Document.		
Option A:	!		
Option B:			
Option C:			
Option D:	?</th		
5.	A distributed database is a collection of data which belong ————————————————————————————————————		
	system but are spread over the of the network.		
Option A:	Logically, sites		
Option B:	Physically, sites		
Option C:	Database, DBMS		
Option D:	DBMS, Database		
6.	Colum in NoSQL is represented by		
Option A:	Field		
Option B:	Document		
Option C:	Database		
Option D:	Collection		

1		
7.	Which of the following are the simplest NoSQL databases?	
Option A:	Wide-column	
Option B:	Document	
Option C:	Key-vabie	
Option D:	JSON	
8.	Which clause is used to search the data with a specified pattern?	
Option A:	OPTIONAL MATCH	
Option B:	MATCH	
Option C:	WHERE	
Option D:	FIND	
9.	In Neo4J joins are represent as?	
Option A:	Constraints	
Option B:	Nodes	
Option C:	Relations hips	
Option D:	Traversal	
10.	Which of the following is true concerning a global transaction?	
Option A:	The required data are at one local site and the distributed DBMS routes requests as	
	necessary.	
Option B:	The required data are located in at least one nonlocal site and the distributed DBMS routes	
	requests as necessary.	
Option C:	The required data are at one local site and the distributed DBMS passes the requestbonly	
	the local DBMS.	
Option D:	The required data are located in at least one nonlocal site and the distributed DBMS passes	
1	the request to only the local DBMS.	

Q2	Solve any Two Questions out of Three	10 marks each
A	Explain different types of NOSQL Database.	
В	Mention the Datatypes in MongoDB. Which funct	ion is used to save and updatedocument
	in MogoDB?	
C	Describe in detail Graph Database with Neo4J	

Q3	Solve any Two Questions out of Three	10 marks each
A	Explain in detail Distributed DBMS Architecture.	
В	Explain 3PC in detail.	
C	What is XML? Explain XML Schema document with	example.

Q4	Solve any Two Questions out of Three 10 marks each
A	Explain the different methods of concurrency control in distributed Database.
В	Explain JSON data types with suitable examples.
C	Explain Data distribution model in NoSQL

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Mark only one oval.

YES

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UOM Exam Second half 2021_Question paper_R2019/Comp/CSC503 -Computer Network/Sem-V

Dear Student,

Please note before you attempt this section of examination:

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2. This paper contains 20 Marks MCQ and 60 marks subjective section for 150 minutes duration.

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- 4. Roll Number *

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Solve Questions as per the instructions given separately.

- Please upload a single PDF for Q1 to Q4

- For MCQs Question write Question number & correct option with complete text in option.

- Q2 to Q4 are subjective questions - Solve Questions as per the instructions and marks allotted.

Q1.	Choose the correct option for following questions. All the Questions are
_	The new inside we die and the set of the set
1.	I ransmission media are usually categorized as
Option A:	m etallic or non-m etallic
Option B:	determinate or indeterminate
Option C:	guided or unguided
Option D:	fixed or unfixed
2.	Autom atic repeat request error m anagem ent m echanism is provided by
Option A:	media access control sublayer
Option B:	logical link control sublayer
Option C:	application access control sublayer
Option D:	network interface control sublayer
3.	Which of the following device is used to connect two systems, especially if the
	system s use different protocols?
Option A:	Gateway
Option B:	Repeater
Option C:	Bridge
Option D:	Hub
	If a class B network on the Internet has a subnet mask of 255.255.248.0, what is
4.	the maximum number of hosts per subnet?
Option A:	512
Option B:	1024
Option C:	1024
Option D:	2046
opuon 2.	
5.	What is the form at of IPV6 address?
Option A:	128
Option B:	64
Option C:	32
Option D:	16
6.	The root of the DNS tree is
Option A:	a string of 64 characters
Option B:	a string of 32 characters
Option C:	a string of 63 characters
Option D:	an empty string

	Which one of the following protocols is NOT used to resolve one form of address
7.	to another one?
Option A:	DHCP
Option B:	SNMP
Option C:	FTP
Option D:	ARP
	An endpoint of an inter-process communication flow across a computer network
8.	is called
Option A:	Port
Option B:	Socket
Option C:	Pipe
Option D:	Machine
9.	What is the maximum number of IP addresses that can be assigned to hosts on a
	local subnet that uses the 255.255.255.224 subnet mask?
Option A:	8
Option B:	10
Option C:	32
Option D:	30
10.	which of the following is the multiple access protocol for channel access control?
Option A:	ARC
Option B:	CSMA/CD and CSMA/CA
Option C:	Sliding window protocol
Option D:	HDLC

Q2.	Solve any Four out of Six	5 markseach
A	Explain different types of CSMA protocols	
В	Explain IPV4 header format with appropriate diagram	
С	Explain different internetworking devices	
D	Explain token bucket algorithm	
E	Explain optic fiber with appropriate diagram	
F	How does congestion control work in TCP?	

Q3.		
A	Solve any Two	5 marks each
i.	Explain DNS with appropriate diagram	
ii.	Explain 3 - way connection establishment han	dshake in TCP
iii.	Given the network address 132.21.0.0, find the of the addresses, how many host addresses car	e class, the block, and the range 1 be created?
В	Solve any One	10 marks each
i.	Explain Distance vector routing. What is its lin overcome?	mitations and how are they
ü.	Explain pure Aloha and slotted Aloha with ap	propriate diagram

Q4.		
Ā	Solve any Two	5 marks each
i.	Explain Dijkstra's algorithm with appropriate	diagram
ii.	Explain SMTP	
iii.	Consider a message represented by the polyno Consider a generating polynomial G(x) = x3 + code and show what will be the transmitted fr	omial M(x) = x5 + x4 + x. + x2 +1. Generate a 3 bit CRC ame?
В	Solve any One	10 marks each
i.	An ISP is granted a block of addresses sta (65536) addresses the ISP needs to distrib groups of custom ers as follows: 1) The first group has 64 custom ers, each 2) The second group has 128 customers; ea 3) The third group has 128 customers; ea	arting with 190.100.0.0/16 oute these addresses to three a needs 256 addresses each need 128 bits. ch need 64 addresses.
ü.	Explain HTTP & Telnet protocols in detail.	

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YES

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UOM Exam Second half 2021_Question paper_R2019/Comp/CSC504 - Data Warehousing and Mining/Sem-V

Dear Student,

Please note before you attempt this section of examination:

1. Q1, Q2, Q3 and Q4 carry 20 marks each.

2. This paper contains 20 Marks MCQ and 60 marks subjective section for 150 minutes duration.

3. It is mandatory for all the students to upload their answer papers in a single PDF format only.

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- **TE9**

5. Roll No. *

Solve Questions as per the
instructions given separately.

- Please upload a single PDF for Q1 to Q4 $\,$

- For MCQs Question write Question number & correct option with complete text in option.

- Q2 to Q4 are subjective questions - Solve Questions as per the instructions and marks allotted.

Page 1/5

01.	Choose the correct op tion for following questions. All the Questions are compulsory
	and carry equal marks
1.	Assume that the database D is given by the table below. Follow single link technique to
	find clusters in D. Use Euclidean distance measure. (A : 2,1) (B: 3,2) (C:3,2) (D:4,4)
	(E:5,5) Final Clusters are
Option A:	k1(A,B,C), k2(D,E)
Option B:	k1(A,B), k2(C,D,E)
Option C:	k1(A), k2(B,C,D,E)
Option D:	k1(B,C), k2(A,D,E)
2.	
	involves capturing data through the transaction logs or Database triggers or capture
	in Source application.
Option A:	Immediate data extraction
Option B:	deferred data extraction
Option C:	quick data extraction
Option D:	delay data extraction
3.	Data mining is?
Option A:	time variant non-volatile collection of data
Option B:	The actual discovery phase of a knowledge
Option C:	The stage of selecting the right data
Option D:	The pattern matching algorithm
4.	Web structure mining comprises of a process of
Option A:	Understanding trends and associations
Option B:	Extracting useful information from server
Option C:	Discovering patterns and structures
Option D:	Using graphs and network mining theory
).).	Confidence C is defined as (consider Rule L -> M)
Option A:	Support_count (L)/Support_count (M)
Option B:	Support_count (L and M occurs together)/Support_count (L)
Option C:	Support_count (M)/Support_count (L)
Option D:	Support_count ((L and M occurs together)/Support_count (M)
0.	Iviaximai irequent itemset defines
Option A:	If none of the immediate supersets is frequent
Option B:	If all of the immediate supersets is frequent
Option C:	If all of the immediate subsets is frequent
Option D:	If none of the immediate subsets is frequent

1.	Which of the following is not a valid V isualization technique?
Option A:	Scatter plot
Option B:	Box plot
Option C:	Histogram
Option D:	Decision tree
8.	Which of the following statements are not true?
Option A:	Clustering analysis is an unsupervised learning since it does not require labeled training
	data.
Option B:	When clustering, we want to put two dissimilar data objects into the same cluster.
Option C:	Clustering is a technique of analyzing and dividing data.
Option D:	Data are broken into hierarchy clusters in Hierarchical clustering algorithms
9.	is the process of transforming numerical variables into categorical counterparts
Option A:	clustering
Option A: Option B:	Clustering Binning
Option A: Option B: Option C:	clustering Binning classification
Option A: Option B: Option C: Option D:	clustering Binning classification Association mining
Option A: Option B: Option C: Option D:	clustering Binning classification Association mining
Option A: Option B: Option C: Option D: 10.	clustering Binning classification Association mining A database has 5 transactions T1-T5. Let min sup = 40% and min conf =65% AND
Option A: Option B: Option C: Option D: 10.	clustering Binning classification Association mining A database has 5 transactions T1-T5. Let min sup = 40% and min conf =65% AND T1={A,B,D,E} T2={A,C,A,B} T3={C,B,A,C} T4={B,A,D} T5={C,D}. The following
Option A: Option B: Option C: Option D: 10.	clustering Binning classification Association mining A database has 5 transactions T1-T5. Let min sup = 40% and min conf =65% AND T1={A,B,D,E} T2={A,C,A,B} T3={C,B,A,C} T4={B,A,D} T5={C,D}. The following are some of the strong association rules
Option A: Option B: Option C: Option D: 10.	clustering Binning classification Association mining A database has 5 transactions T1-T5. Let min sup = 40% and min conf =65% AND T1={A,B,D,E} T2={A,C,A,B} T3={C,B,A,C} T4={B,A,D} T5={C,D}. The following are some of the strong association rules (A,B)->C, (A,C)->B
Option A: Option B: Option C: Option D: 10. Option A: Option B:	clustering Binning classification Association mining A database has 5 transactions T1-T5. Let min sup = 40% and min conf =65% AND T1={A,B,D,E} T2={A,C,A,B} T3={C,B,A,C} T4={B,A,D} T5={C,D}. The following are some of the strong association rules (A,B)->C, (A,C)->B C->(A,B), (A,C)->B
Option A: Option B: Option C: Option D: 10. Option A: Option B: Option C:	clustering Binning classification Association mining A database has 5 transactions T1-T5. Let min sup = 40% and min conf =65% AND T1={A,B,D,E} T2={A,C,A,B} T3={C,B,A,C} T4={B,A,D} T5={C,D}. The following are some of the strong association rules (A,B)->C, (A,C)->B C->(A,B), (A,C)->B B->(A,C), (A,C)->B

Question 2	Solve any Two out of Three 10 marks each				ch		
	Apply statistical based algorithm to obtain the actual probabilities of e event to classify the new tuple. Consider new tuple as t = { Adam, M, 1.9 . Use the following data :						of each ,1.95m}
		Person ID	Name	Gender	Height	Class	
		1	Kristina	Female	1.6 m	Short	
		2	Jim	Male	2 m	Tall	
A		3	Maggle	Female	1.9 m	Medium	
		4	Martha	Female	2.1 m	Tall	
		5	Stephanie	Female	1.7 m	Short	
		6	Bob	Male	1.85 m	Medium	
		7	Catherine	Female	1.6 m	Short	
		8	Dave	Male	1.7 m	Short	
		9	Wilson	Male	2.2 m	Tall	
В	Consider a data warehouse for order analysis application where there are four dimensions 1. Customer 2.Order date 3.Sales person and 4.Product. Consider two measures: cost and quantity sold. Design s tar and Snowflake schema.						
С	Apply. table :	Apriori algori Minimum Su Minimum Co	thm to find al .pport count = onfidence = 71	l frequent its 2 0%	em sets fro	om the follow	ring

	TID	Item	
	100	1,2,5	
	200	2,4	
	300	2,3	
	400	1,2,4	
	500	1,3	
	600	1,2,3,5	

Question 3	Solve any Two out of Th	166			10 marks each
	Calculate 2 clusters using distance use Euclidian dist	k-means ch ance	uster a	lgoritl	um. For finding the
		Subject	A	В	
		1	1.0	1.0	
		2	1.5	2.0	
A		3	3.0	4.0	
		4	5.0	7.0	
		5	3.5	5.0	
		6	4.5	5.0	
		7	3.5	4.5	
в	Describe the various multi example of multilevel min	level associ ing with red	iation 1 luced :	ule m suppo	ining. In detail provide an rt
с	Explain the structure of we any fragment from server l	b log with log.	the ex-	ample	of each field. Consider

Question 4	Solve any Four Questions out of Six 5 marks each
A	Compare OLTP vs OLAP systems.
В	Explain ROLAP and MOLAP models.
С	Explain how the accuracy of a classifier can be measured. How Bagging strategy helps improving the classifier accuracy?
D	Describe the steps involved in the FP growth algorithm. Compare and contrast its steps with Apriori algorithm
E	Elaborate on the taxonomy of web mining
F	In real-world data, tuples with missing values for some attributes are a common occurrence. Describe various methods for handling this problem

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UOM Exam Second half 2021_Question paper_R2019/Comp/CSDLO 5012 -Internet Programming/Sem-V

Dear Student,

Please note before you attempt this section of examination:

1. Q1, Q2, Q3 and Q4 carry 20 marks each.

2. This paper contains 20 Marks MCQ and 60 marks subjective section for 150 minutes duration.

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Solve Questions as per the
instructions given separately.

- Please upload a single PDF for Q1 to Q4

- For MCQs Question write Question number & correct option with complete text in option.

- Q2 to Q4 are subjective questions - Solve Questions as per the instructions and marks allotted.

01	Choose the correct option for following questions. All the Questions are
Q1.	compulsory and carry equal marks
1.	If we want to define style for an unique element , then which CSS selector will we use
Option A:	Text
Option B:	Name
Option C:	Class
Option D:	Id
2.	Which one of the following method is used to retrieve the number of rows added due to
	an INSERT query
Option A:	affectedrows()
Option B:	changed rows()
Option C:	affected_rows()
Option D:	rows affected()
3.	Which of the following is correct to set "Black as Background of page?
Option A:	bgcolor = "#000000"
Option B:	<body background="#000000"></body>
Option C:	<body background="" color="#000000"></body>
Option D:	All of above
4.	What is the output of the following JavaScript code?
	<pre><scrip e="text/javascrip f" t="" typ=""></scrip></pre>
	$x = 4 + 4^{\prime\prime};$
	document.write(x);
Option A:	44
Option B:	8
Option C:	4
Option D:	Error
2.	What is the correct signature of _spService() method of HttpJspPage class?
Option A:	void _spbervice(HTTPRequestrequest, HTTPResponse response)
Option B:	void _spbervice(HIIPRequest request, HIIPResponse response) throws
	ServietException, IOException
Option C:	Void Jspbervice()
Option D:	void _spService() throws ServietException, IOException
,	
6.	15P life cycle includes the following phases. Arrange them as they occur
	1. Instantiation
	2. Request processing
	3. Initialization

4. Classloading				
5. Compilation of JSP Page				
6. Destroy				
7. Translation of JSP Page				
6-5-41-3-2-7				
7-5-41-3-2-6				
7-5-4-3-1-2-6				
1-5-4-7-3-2-6				
Which of the following is the correct data flow sequence of flux concept?				
Dispatcher->Action->Store->View				
Action->Dispatcher->View->Store				
Action->Dispatcher->Store->View				
Action->Store->Dispatcher->View				
Match the correct pair				
1. XSLT a. It is a language for form atting XML documents.				
2. XPath b. It is a language for transforming XML documents into				
various other types of docum ents				
3. XQuery c. It is a language for navigating in XML documents.				
4 XSL-FO d It is a language for querving XML documents				
4. MoD-10 d. This d tangadge for quotymentais account onto.				
1-d, 2-c, 3-b, 4-a				
1-c, 2-d, 3-b, 4-a				
1-b, 2-d, 3-a, 4-c				
1-b, 2-c, 3-d, 4-a				
What will be the output of the following PHP program?				
php</th				
<pre>\$month = array("Jan", "Feb", "Mar", array("Apr", "May"));</pre>				
echo (count(\$month, 1));				
/>				
4				
The XSLT Processor accents which files for processing				
DHTML document XSL Document				
HTML document DOM document				
XML document XSL Document				
a second development of the second seco				

Q2	Solve any Four out of Six 5 marks each
А	List and explain various CSS Transition properties
В	What is the use of XMLH ttpR equest object? Explain m ethods that are used to send request to server using AJAX.
С	Write HTML5 code to drag a specific im age and drop it on a specific location
D	Explain with the help of an example how exceptions are handled in JavaScript
E	Differentiate between HTML and XIML
F	Explain the following elements of XSL with examples i. <xsl :="" of="" value-=""> ii. <xsl :="" for-each=""></xsl></xsl>

Q3	Solve any Two Questions out of Three 10 marks each
	What is validation. Create a form that has following fields, "Username",
	"Password" and "Confirm Password". Using JavaScript validate each field as
	follows:
1	a) Username should of minimum 10 characters
	b) Password should contain 1 upper case letter, 1 lower case letter, 1 digit and 1
	special character and the length of the password should be minimum 8.
	c) Confirm password should match password entered.
2	What are Servlets? Demonstrate the Servlet architecture and explain its working principle.
3	Create a well-formed XML document containing details of a car like: id, company_name,
	model, engine and mileage. Format this information in the tabular manner using XSLT

Q4.	
A	Solve any Two 5 marks each
į	What is the purpose of implicit arrays \$_POST and \$_GET in PHP? Consider that a webpage displays a form containing two text boxes named n1 and n2, where user enters numeric data. Write a PHP script which collects this form data and findsgreatest of two numbers and displays the same.
<u>ii</u> .	What is session tracking? Show how session tracking is achieved using cookies
iii.	Draw the diagram of AJAX application model and traditional application web model and compare them
В	Solve any One 10 marks each
į	Create an HTML form that accepts Emp_Id, First_Name, Last_Name and Genderfrom user. Write a PHP code to store this information into Employee table using MySQL database
ii.	Write HTML5 code for embedding audio and video elements in the web page.

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UOM Exam Second half 2021_Question paper_R2019/Comp/CSC501 -THEORETICAL COMPUTER SCIENCE/Sem-V

Dear Student,

Please note before you attempt this section of examination:

1. Q1, Q2, Q3 and Q4 carry 20 marks each.

2. This paper contains 20 Marks MCQ and 60 marks subjective section for 150 minutes duration.

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- 5. Roll No. *

Solve Questions as per the instructions given separately.

- Please upload a single PDF for Q1 to Q4

- For MCQs Question write Question number & correct option with complete text in option.

- Q2 to Q4 are subjective questions - Solve Questions as per the instructions and marks allotted.

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	The no. of minimum state for divisibility by four tester FSM for binary numbers
Option A:	Three
Option B:	Four
Option C:	Five
Option D:	Six
2.	In Moore Machine if the length of I/p sequence is n, then length of 0/p sequence is
Option A:	n ²
Option B:	2n
Option C:	n+1
Option D:	N
3.	If P, Q, R be the three regular expressions then the equation
	R = Q + RP has a unique solution given by
Option A:	R = QP*
Option B:	R = P*R
Option C:	R = RP
Option D:	R =Q*P
	Coursil with C. Burning at the sector
4.	Consider the following statements.
	I. II. C. M. Is regular, then could and M. Mustoe regular.
Option 4:	I. The class of regular languages is closed under minute difficit.
Option B:	Honly
Option C:	Both Land II
Option D:	Neither I nor II
opuon D.	
5.	The production of the form $A_{-} > BC$ or $A_{-} > a$ where $A_{-} > B \& C$ are non-terminals and a
	is terminal This type of grammar is
Option A:	Unit production
Ontion B:	Chomsky Normal Form
Option C:	Null production
Option D:	Greib ach Normal Form
б.	is Type 2 grammar according to Chomsky Hierarchy.
Option A:	Regular Grammar
Option B:	Context Sensitive Grammar
Option C:	Context Free Grammar
Option D:	Unrestricted Grammar

7.	A PDA machine configuration(q,a,X) can be correctly represented as ,
Option A:	(Current state, unprocessed input, stack content)
Option B:	(Current state, stack content, unprocessed input ,)
Option C:	(unprocessed input ,current state, ,stack content)
Option D:	(stack content, current state, unprocessed input)
8.	can be used to simulate any Turingm achine
Option A:	Finite state machine
Option B:	Push down automata
Option C:	Universal Turing machine
Option D:	Counter machines
9.	Recursively enumerable language can be recognized by a,
Option A:	Finite state machine
Option B:	Deterministic push down automata
Option C:	Turing machine
Option D:	Linear bounded automata
10.	Consider the following statement
	I. Each Turing Acceptable language is need not to be Turing Decidable
	II. Every Turing Decidable language is Turing acceptable
Option A:	only I is true
Option B:	only II is true
Option C:	Both are False
Option D:	Both are True

Q2		
A	Solve any Two	5 marks each
į,	Write Short note on :Universal Turing machi	ne
ii.	Convert following context free gramm S→ABA	ar to equivalent CNF
	A→aAle B→bBle	
<u>iii</u> .	Prove that L= {WW [®] W € (0, 1)*} is n of w using pumping lemma.	ot regular where w ^R is reverse
В	Solve any One	10 marks each
i	Design Turingm achine for the language	$L = \{a^{n}b^{n+1} n > 0\}$
ii.	Design a DFA for language of string wit num ber of 1's over∑= {0,1}	thevennumber of O's and odd

Q3	
A	Solve any Two 5 marks each
į	Find the solution for the following instances of PCP. x = {1,10111,10} y = {111,10,0} have a solution? Justify your answer
ii.	Use Arden's Theorem to find the regular expression represented by the following DFA: 0 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0
iii.	Design PDA for language {(a ⁿ b ^m a ⁿ m, n≥1}
В	Solve any One 10 marks each
i.	Convert the following RE to \in -NFA & then convert it to DFA: R=((0+1)*10+(00)*(11)*)*
ü.	Design Moore machine to convert each occurrence of "1000" to"1001".

Q4		
А	Solve any Two	5 marks each
i.	Write Short Note on Choms ky Hierarchy	
ü.	Differentiate between DFA and NFA	
<u>111</u> .	Design PDA for L={ $x \mid n_a(x)=n_b(x)$ }	
В	Solve any One	10 marks each
į,	Consider the followingGrammar	
	S→SAS b	
	A→ba b	
	For the string 'bbabbbbab' find the following	ng, LMD, RMD, parsetree
	and check whether the grammar is ambiguous or	not.
ii.	Design Turing machine to perform addition	on of two unary numbers.
	i.e. m+n	
	I/P = B0 = #0=B	
	O/P = B0PB where p=m+n	

6. Please Upload complete scanned answer copy in a single PDF file. *

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Mark only one oval.

YES

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UOM Exam Second half 2021_Question paper_R2019/Comp/CSDL05011 -Probabilistic Graphical Models/Sem-V

Dear Student,

Please note before you attempt this section of examination:

1. Q1, Q2, Q3 and Q4 carry 20 marks each.

2. This paper contains 20 Marks MCQ and 60 marks subjective section for 150 minutes duration.

3. It is mandatory for all the students to upload their answer papers in a single PDF format only.

4. You have to write Date of Examination, Seat number, Program, Scheme and semester, Subject name, Signature on EVERY PAGE.

5. Remain in the meet with your camera on and you in clear view throughout the duration of the exam.

* Required

- 1. Email *
- 2. Student Name (As per exam form filled) *
- 3. Seat No *

Refer Hall ticket

4. Class *

Mark only one oval.

- TE3
- TE4
- **TE9**

5. Roll Number: *

Solve Questions as per the	
instructions given separately.	

- Please upload a single PDF for Q1 to Q4 $\,$

- For MCQs Question write Question number & correct

option with complete text in option.

- Q2 to Q4 are subjective questions - Solve Questions as per the instructions and marks allotted.

Page 1/5

01	Choose the correct option for following questions. All the Questions are
- Y-1	compulsory and carry equal marks
1.	Which algorithm is used for solving temporal probabilistic reasoning?
Option A:	Hill Climbing Algorithm
Option B:	Hidden Markov Model
Option C:	Depth-first search
Option D:	Breadth-first search
2.	Functional dependencies that holds at a particular point in time are known as
Option A:	Interval functional dependency
Option B:	Temporal functional dependency
Option C:	Snapshot functional dependency
Option D:	Pointed functional dependency
3.	What is the Markov Blanket of variable S3.
	D1 D2 D2 S1 S2 S3

Option A:	D1
Option B:	D2
Option C:	D1 and D2
Option D:	S2
4.	Find the incorrect statem ent. Bayesian (BN) versus Markov Network (MN)
Option A:	InBN, we use conditional probability as factors. In MN also, we use conditional probability.
Option B:	In MN, we want to capture the affinity by a real num ber. In BN the factors are probability between 0 and 1.
Option C:	MN is restricted to discrete state space while BN can be both discrete and continuous.
Option D:	Unlike BN which have directed edges and clear directions of causality, MN have undirected edges and only encode associations.
5.	Which of these is not a goal of learning.
Option A:	Density estimation
Option B:	Specific Prediction tasks
Option C:	Knowledge Discovery
Option D:	Introducing bias
6.	For n random binary variables the joint distribution requires
	param eters.
Option A:	2n-1
Option B:	n-1
Option C:	2^n-1
Option D:	2^n
7.	If the various probabilities are given as: P(B1)=P(B2)=P(B3)=P(B4)=1/4 and P(D/B1)=0.05, P(D/B2)=0.4, P(D/B3)=0.1, P(D/B4)=0.1. Find P(B2/D).
Option A:	13/80
Option B:	13/8
Option C:	8/13
Option D:	0

8.	In Fig 1 is C independent of E if A is observed? In Fig 2 is D independent of A?
8.	In Fig 1 is C independent of E if A is observed? In Fig 2 is D independent of A?
Ontion A:	E E
opuonia.	
Option B:	Fig I - Yes, Fig Z - No
Option C:	Fig 1 - No, Fig 2 – Yes
Option D:	Fig 1 & 2 - Yes
9.	Which of the options is not a type of local probabilistic m odel?
Option A:	Deterministic CPDs
Option B:	Context-Specific CPDs
Option C:	TabularCPDs
Option D:	Generalized quadratic Models
10.	A decision-making situation D is defined by which of the following elements:
Option A:	A set of possible outcom es and a set of possible actions
Option B:	A probabilistic outcom e m odel
Option C:	An utility function
	1

Q.2	Solve any Four out of Six [5 marks each]
A	Differentiate between marginal and joint distributions with an example.
В	Explain Causal and Evidential Reasoning patterns with example.
С	Explain factor graph in HMM with the help of an example.
D	What is a temporal setting with respect to PGM? Explain with the help of an example.
E	Explain speech recognition as an application HMM.
F	Explain Expected Log Likelihood metric.



I 1	Α	В	Phi
	0	0	20
	0	1	5
	1	0	3
	1	1	12
	в	с	Phi
	0	0	40
	0	1	15
	1	0	13
-			50

Q. 4	Solve any Four out of Six [5 marks each]
A	Write a short note on C onditioning a Markov Network Model.
В	Explain confounding variables with the help an example?
С	Explain structured decision problem s with the help of decision tree.
D	$\label{eq:stars} Explain the \ concept \ of \ Log Linear Param \ eterization \ with \ the \ help \ of \ an \ example.$
E	Explain any one application of Bayesian Network with respect to PGM.
F	Explain variable elimination with the help of an example.

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UOM Exam Second half 2021_Question paper_R2019/Comp/CSC502 - Software Engineering/Sem-V

Dear Student,

Please note before you attempt this section of examination:

1. Q1, Q2, Q3 and Q4 carry 20 marks each.

2. This paper contains 20 Marks MCQ and 60 marks subjective section for 150 minutes duration.

3. It is mandatory for all the students to upload their answer papers in a single PDF format only.

4. You have to write Date of Examination, Seat number, Program, Scheme and semester, Subject name, Signature on EVERY PAGE.

5. Remain in the meet with your camera on and you in clear view throughout the duration of the exam.

* Required

- 1. Email *
- 2. Student Name (As per exam form filled) *
- 3. Seat No *

Refer Hall ticket

4. Class *

Mark only one oval.

- TE3
- TE4
- **TE9**

5. Roll No. *

Solve Questions as per the instructions given separately.

- Please upload a single PDF for Q1 to Q4

- For MCQs Question write Question number & correct option with complete text in option.

- Q2 to Q4 are subjective questions - Solve Questions as per the instructions and marks allotted.

01	Choose the correct option for following questions. All the Questions are			
Q1.	compulsory and carry equal marks			
1.	The incremental model of software development is			
Option A:	A reasonable approach when requirements are well defined.			
Option B:	A good approach when a working core product is required quickly.			
Option C:	The best approach to use for projects with large development team.			
Option D:	A revolutionary model that is not used for commercial products.			
2.	Which of the following testing is the part of non-functional testing?			
Option A:	Unit testing			
Option B:	Performance testing			
Option C:	System testing			
Option D:	Integration testing			
3.	Software Testing with real data in real environment is known as			
Option A:	alpha testing			
Option B:	beta testing			
Option C:	regression testing			
Option D:	retesting			
4.	Which of the following risk is the failure of a purchased component to perform as			
	expected?			
Option A:	Product risk			
Option B:	Project risk			
Option C:	Business risk			
Option D:	Programming risk			
5.	LOC based estimation techniques require problem decomposition based on			
Option A:	Information domain values			
Option B:	Project schedule			
Option C:	Size of Software functions			
Option D:	Process activities			
б.	In scrum the team activity is monitored and coordinated on basis.			
Option A:	Hourly			
Option B:	Daily			
Option C:	Monthly			
Option D:	Weekly			
7.	Which of the following framework activities are found in the Extreme Programming?			
Option A:	Planning, Analysis, Design, Coding			
Option B:	Analysis, Design, Coding, Testing			
Option C:	Planning, Design, Coding, Testing			
Option D:	Design, Analysis, Coding, Testing			

8.	Cohesion is a qualitative indication to the degree to which a module
Option A:	Can be written more compactly.
Option B:	Focuses on just one thing.
Option C:	Is able to complete its function in a timely manner.
Option D:	Is connected to other modules and the outside world.
9.	Which of the following is the process of assembling program components, data, and libraries, and then compiling and linking these to create an executable system?
Option A:	System building
Option B:	Release management
Option C:	Change management
Option D:	Version management
10.	Which of the following is not a SQA plan for a project?
Option A:	Evaluations to be performed
Option B:	Amount of technical work
Option C:	Audits and reviews to be performed
Option D:	Documents to be produced by the SQA group
	-

Q2	Solve any Four out of Six. 5 mar	kseach.
Â	Explain spiral process model.	
В	What are the advantages of Agile process.	
С	Differentiate between White Box testing and Black Box testing.	
D	Explain – Reverse Engineering.	
E	Explain scenario based model?	
F	Describe Boundaryvalue testing with an suitable example.	

Q3	Solve any Two Questions out of Three.	10 marks each.
А	Explain risk and its types? Explain the steps involved generating RMIVIM plan.	l in setting up or
В	Differentiate between FP based & LOC based cost estimation	on techniques.
C	Develop the SRS for University Management System.	

Q4.		
A	Solve any Two.	5 marks each.
i.	Explain Integration testing.	
ü.	Distinguish between cohesion and coupling.	
iii.	What is cost estimation? Explain LOC method.	
В	Solve any One.	10 marks each.
i.	What is FTR? Explain the review guidelines considered	during FTR.
ü.	Explain the process of SCM.	

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Examination Second Half 2021

Examinations Commencing from 22nd November 2021 to 5th January 2022

Program: COMPUTER ENGINEERING

Curriculum Scheme: Rev2019

Examination: TE Semester V

Course Code: CSC501 and Course Name: THEORETICAL COMPUTER SCIENCE

Time: 2 hour 30 minutes

Max. Marks: 80

Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	В
Q2.	С
Q3.	А
Q4	D
Q5	В
Q6	С
Q7	А
Q8.	С
Q9.	С
Q10.	D

Descriptive Q2, Q3 and Q4

Ans : Solution / Expected points /Distribution of Marks.

Examination Second Half 2021 under cluster _____(Lead College: ______) Examinations Commencing from 22nd November 2021 to 5th January 2022 Program: Computer Engineering Curriculum Scheme: Rev2019 Examination: TE Semester V Course Code: CSC502 and Course Name: Software Engineering Time: 2 hour 30 minutes

Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	В
Q2.	В
Q3.	В
Q4	Α
Q5	С
Q6	В
Q7	С
Q8.	В
Q9.	Α
Q10.	В

Examination Second Half 2021

Examinations Commencing from 22nd November 2021 to 5th January 2022

Program: Computer Engineering

Curriculum Scheme: Rev2019

Examination: TE Semester V

Course Code: CSDLO5011 and Course Name: Probabilistic Graphical Models

Time: 2 hour 30 minutes

Max. Marks: 80

Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	В
Q2.	В
Q3.	В
Q4	А
Q5	D
Q6	С
Q7	С
Q8.	А
Q9.	D
Q10.	D

Examination Second Half 2021

Examinations Commencing from 22nd November 2021 to 5th January 2022

Program: Computer Engineering

Curriculum Scheme: Rev2019

Examination: TE Semester V

Course Code: CSDLO 5012 and Course Name: Internet Programming

Time: 2 hour 30 minutes

Max. Marks: 80

Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	D
Q2.	С
Q3.	А
Q4	А
Q5	В
Q6	В
Q7	С
Q8.	D
Q9.	D
Q10.	С

Q2.

Ans A. Each property -- 1 mark

Ans B. Use XMLHttpRequest object -- 2mark List all methods – 1 marks Explain methods – 2 marks

Ans C. Correct code for drag using API –2 marks Defining destination in code – 1 marks Correct code for drop using API –2 marks

Ans D. listing all exception handling statements-1 mark Explain each method - 1 mark each (4 methods – each method 1 mark) An

Ans E. Any 5 points – Each correct point – 1mark

Ans F. <xsl : value- of> - 2 mark ,1 mark example <xsl : for -each> - 2 mark, 1 mark example

Q3.

Ans 1: Validation explanation – 2 marks HTML form – 2 marks Username validation – 2 marks Password validation – 2 marks Confirm Password – 2 marks

Ans 2: Servlets explanation – 2 marks Listing of Components & explanation – 3 marks Architecture diagram & explanation – 3 marks

Ans 3:

Valid XML Document – 5 marks Correct XSLT - 5 marks

Q4.

Ans A i. \$_GET – 1 mark \$_POSt – 1 mark Program – 3 marks

A ii. Session tracking concept – 2 marks
Session tracking using cookies-3 marks
A iii. AJAX application model – 1 mark
Traditional application model – 1 mark

Any 3 valid points – 3 marks

Ans B i – HTML form – 5 marks PHP Code – 5 marks

Ans Bii. Audio clip with all possibility – 5 marks Video clip with all possibility – 5 marks

Examination Second Half 2021 under cluster __ (Lead College: _____)

Examinations Commencing from 22nd November 2021 to 5th January 2022

Program: _Computer Engineering____

Curriculum Scheme: Rev2019

Examination: TE Semester: V

Course Code: CSC504 and Course Name: Data Warehousing and Mining Time: 2 hour 30 minutes Max. Marks: 80

Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	А
Q2.	А
Q3.	В
Q4	D
Q5	С
Q6	А
Q7	D
Q8.	В
Q9.	В
Q10.	В



Step-3: Find all the rules of these subsets that have higher confidence value than the threshold or minimum confidence.

Step-4: Sort the rules as the decreasing order of lift.

For the following dataset that has various transactions, we need to find the frequent itemsets and generate the association rules using the Apriori algorithm:

Step-1: Calculating C1 and L1:

• In the first step, we will create a table that contains support count

(The frequency of each itemset individually in the dataset) of each

itemset in the given dataset. This table is called the Candidate set or

C1.

Item Set	Support Count
1	4
2	5
3	3
4	2
5	2

Now, we will take out all the itemsets that have the greater support count that the Minimum Support (2). It will give us the table for the frequent itemset L1.

Since all the itemsets have greater or equal support count than the minimum support,

Item Set	Support Count
1	4
2	5
3	3
4	2
5	2

Step-2: Candidate Generation C2, and L2:

1. In this step, we will generate C2 with the help of L1. In C2, we will

create the pair of the itemsets of L1 in the form of subsets.

2. After creating the subsets, we will again find the support count from the main transaction table of datasets, i.e., how many times these pairs have occurred together in the given dataset. So, we will get the below table for C2:

Item Set	Support Count
1,2	3
1,3	2
1,4	1
1,5	2
2,3	2
2,4	2
2,5	2
3,4	-
3,5	1
4,5	-

Step-3: Candidate generation C3, and L3:

Again, we need to compare the C2 Support count with the minimum support count, and after comparing, the itemset with less support count will be eliminated from the table C2. Similarly perform further combinations

Item Set	Support Count
1,2,3	1
1,2,4	1
1,2,5	2
2,3,4	-
2,3,5	1
3,4,5	-
4,5,1	-

4,5,2	-	
Step-4: Finding the	association rules for the	subsets:
To generate the ass possible rules from will calculate the C the confidence value confidence than the	sociation rules, first, we the occurred combination Confidence using formula ue for all rules, we will minimum threshold(70%	will create a new table with the $A, B.C$. For all the rules, we sup(A ^B)/A. After calculating exclude the rules that have less b).

Question 3	Solve any 7	Fwo out of Three	10 marks each
А	Final Centroid C_1 = (1.83,2.33), C_2 = (4.12,5.37) final clusters (1,2) and (3,4,5,6,7)		
В			
	The Web lo	og contains the following information	n :
	1.	The user's IP address,	
	2.	The user's authentication name,	
	3.	The date-time stamp of the access	S,
С	4.	The HTTP request,	
	5.	The response status,	
	6. The	e size of the requested resource, and	optionally a lso,
	7.	The referrer URL (the page the u	ser "came from"),
	8.	The user's browser identification	

Question 4	Solve any	Four Questions out of Five	5 marks each
		OLTP System Online Transaction Processing (Operational System)	OLAP System Online Analytical Processing (Data Warehouse)
	Source of data	Operational data; OLTPs are the original source of the data.	Consolidation data; OLAP data comes from the various OLTP Databases
	Purpose of data	To control and run fundamental business tasks	To help with planning, problem solving, and decision support
	What the data	Reveals a snapshot of ongoing business processes	Multi-dimensional views of various kinds of business activities
	Inserts and Updates	Short and fast inserts and updates initiated by end users	Periodic long-running batch jobs refresh the data
А	Queries	Relatively standardized and simple queries Returning relatively few records	Often complex queries involving aggregations
	Processing Speed	Typically very fast	Depends on the amount of data involved; batch data refreshes and complex queries may take many hours; query speed can be improved by creating indexes
	Space Requirements	Can be relatively small if historical data is archived	Larger due to the existence of aggregation structures and history data; requires more indexes than OLTP
	Database Design	Highly normalized with many tables	Typically de-normalized with fewer tables; use of star and/or snowflake schemas
	Backup and Recovery	Backup religiously; operational data is critical to run the business, data loss is likely to entail significant monetary loss and legal liability	Instead of regular backups, some environments may consider simply reloading the OLTP data as a recovery method
B ROLAP is Relational Online Analytical Processing model, where the data is stored as in relational database i.e. rows and columns in the data warehouse. In the ROLAP model data is present in the front of the user in the multidimensional form. To display the data, in a multidimensional view, a semantic layer of metadata is created that maps dimension to the relational tables. Metadata also supports aggregation of the data. B B B B B B B Clear Cobe Clear C			
		ROLAP Model	
	MOLAP i data used (MDDBs)	is a Multidimensional Online for analysis is stored in spec . The multidimensional dat	Analytical Processing model. The ialized multidimensional databases tabase management systems are



```
Web log fields
                IP
         0
                152.152.98.11
                IP address - can be converted to host name, such as
         0
         xyz.example.com
         •
                Name
                The name of the remote user (usually omitted and replaced by a
         0
         dash "-")
         •
                Login
                Login of the remote user (also usually omitted and replaced by a
         0
         dash "-")
                Date/Time/TZ
                    16/Nov/2005:16:32:50 -0500
             •
             Etc
         Fragment Example :
             111.111.111.111
             [08/Oct/2007:11:17:55 -0400]
             "GET / HTTP/1.1"
             200
             10801
             "http://www.google.com/search?q=log+analyzer&ie=utf-8&oe=utf-
             8&aq=t&rls=org.mozilla:en- US:official&client=firefox-a"
             "Mozilla/5.0 (Windows; U; Windows NT 5.2; en-US; rv:1.8.1.7)
             Gecko/20070914 Firefox/2.0.0.7"
             Give explanation of each field
         Describe the steps involved in the FP growth algorithm . Scan DB once, find
         frequent 1-itemset (single item pattern)
D
                Sort frequent items in frequency descending order, f-list.
             Scan DB again, construct FP-tree.
```

	• Construct the conditional FP tree in F - List - generate frequent item set	n the sequence of reverse order of t.
	Compare and contrast its steps with Apriori algorithm	
	Apriori	FP Growth
	Apriori generates the frequent patterns by making the itemsets using pairing such as single item set, double itemset, triple itemset.	FP Growth generates an FP- Tree for making frequent patterns.
	Apriori uses candidate generation where frequent subsets are extended one item at a time.	FP-growth generates conditional FP-Tree for every item in the data.
	Since apriori scans the database in each of its steps it becomes time-consuming for data where the number of items is larger.	FP-tree requires only one scan of the database in its beginning steps so it consumes less time.
	A converted version of the database is saved in the memory	Set of conditional FP-tree for every item is saved in the memory
	It uses breadth-first search	It uses a depth-first search.
Е	taxonomy of web mining	



Examination Second Half 2021

Examinations Commencing from 22nd November 2021 to 5th January 2022

Program: Computer Engineering

Curriculum Scheme: Rev2019

Examination: TE Semester V

Course Code: CSC503 and Course Name: Computer Network

Time: 2 hour 30 minutes

Max. Marks: 80

Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	С
Q2.	В
Q3.	А
Q4	D
Q5	А
Q6	D
Q7	А
Q8.	В
Q9.	D
Q10.	В

Solution:

Q3.

A) iii) Class : Class B

Block : 132.21

Range: 132.21.0.0 to 132.21.255.255

Host address : $2^{16} - 2 = 65536 - 2 = 65534$

Q4.

A) iii) CRC : 100

Transmitted frame : 110010100

Q5.

B) i) 190.100.0.0/16

1) 64 customers with 256 address each

190.100.0.0/24 to 190.100.63.0/24

2) 128 customers with 128 address each

190.100.64.0/25 to 192.100.127.128/24

3) 34 customers need 128 address each

190.100.128.0/26 to 190.100.159.192/26

Examination Second Half 2021

Examinations Commencing from 22nd November 2021 to 5th January 2022

Program: Computer

Curriculum Scheme: Rev2019

Examination: TE Semester V

Course Code: CSDLO5013 and Course Name: Advance Database Management System Time: 2 hour 30 minutes Max. Marks: 80

Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	D
Q2.	D
Q3.	В
Q4	С
Q5	А
Q6	А
Q7	С
Q8.	В
Q9.	D
Q10.	В