

Question No.4	4.00
	Bookmark
Let L1 be a recursive language. Let L2 and L3 be languages that are recursively enumerable recursive. Which of the following statements is not necessarily true?	e but not
\circ L1 – L3 is recursively enumerable	
\circ L2 – L1 is recursively enumerable	
$^{\circ}$ L2 U L1 is	
recursively	
enumerable	
\circ L2 \cap L1 is	
recursively	
enumerable	
Question No.5	4.00
The disadvantage of Binary Search is	Bookmark 🗖
 It may not work for floating point numbers 	
 It may not work for strings 	
 It has the overhead of sorting 	
 Its performance depends on the position of the search element in the array 	
Question No.6	4.00
	Bookmark 🔽
search is not optimal with respect to space complexity.	
 Breadth first search 	
Iterative Deepening Search	
 Best first search 	
O Depth first search	
Question No.7	4.00
	Bookmark
The phenomenon of having a continuous glow of a beam on the screen even after it is remove called as	ed is
© incandescence	
C persistence	
 persistence phosphorescence 	

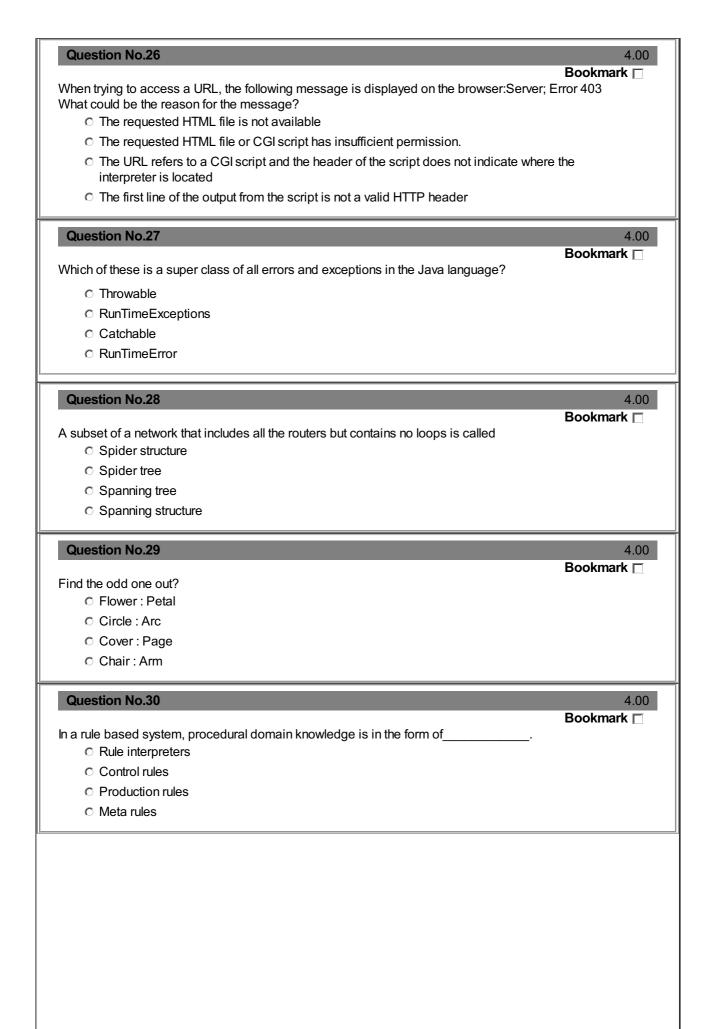
○ fluorescence

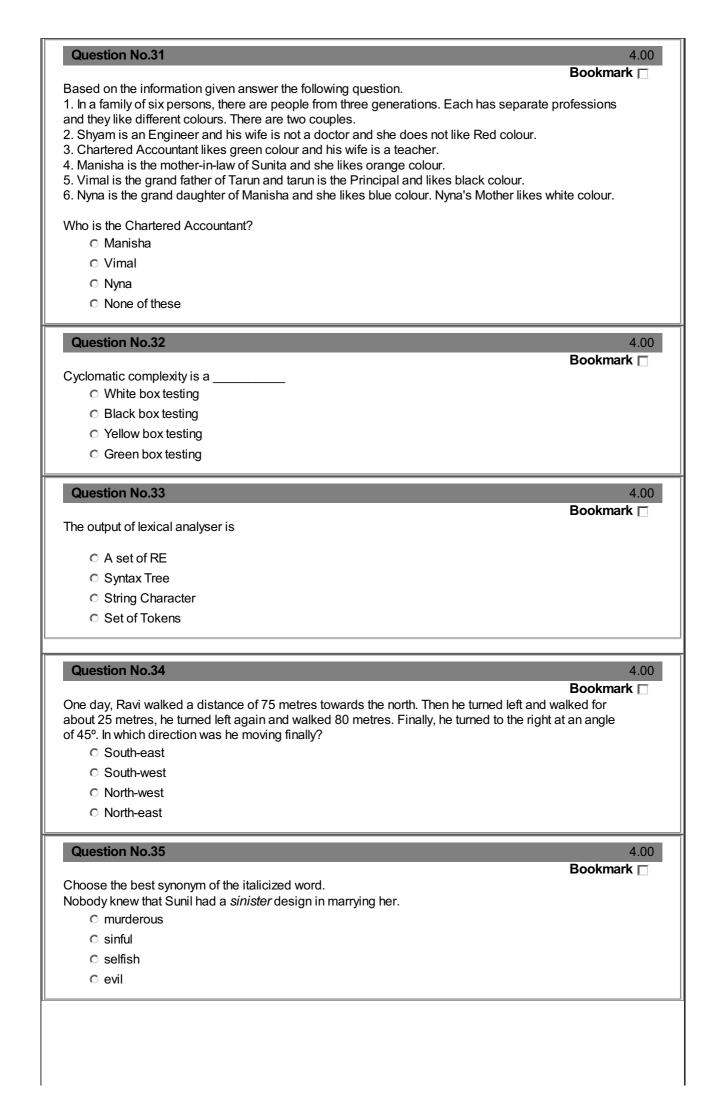
Question No.8	4.00 Bookmark □
Choose the correct meaning of the italicized idiom.	
The party in power came down on the side of a flexible and early ecor	nomic policy to help the weaker
© Decide to speak secretly	
 Decide to support 	
 Decide to support Decide to go to the corner 	
 Decide to go to the corner Decide to rebuke severely 	
Question No.9	4.00
Study the following information carefully and answer the question belo	Bookmark 🗖
The Director of an MBA college has decided that six guest lectures or Decision Making, Quality Circle, Assessment Centre, Leadership and organised on each day from Monday to Sunday.	
 (i) One day there will be no lecture (Saturday is not that day), just before will be organised. (ii) Motivation should be organised immediately after Assessment Ce 	
(iii) Quality Circle should be organised in mediately after Assessment Ce Discussion	
(iv) Decision Making should be organised on Friday and there should Leadership and Group Discussion	be a gap of two days between
On which day there is no lecture?	
○ Monday	
Tuesday	
O Wednesday	
○ Sunday	
	(00
Question No.10	4.00 Bookmark □
Study the following information carefully and answer the question belo	
P, Q, R, S T went on a picnic. P is son of Q but Q is not the father of P brother of P. T is the wife of S.	P. R is the son of S, who is the
How many males are present in the group?	
C 2	
C 4	
O 3	
O 1	
Question No.11	4.00 Bookmark □
Which of the following is NOT true of deadlock prevention and deadlo	
Which of the following is NOT true of deadlock prevention and deadloc C In deadlock prevention, the request for resources is always gra- safe	anted if the resulting state is
In deadlock prevention, the request for resources is always graded and the request for resources is always graded an	-
 In deadlock prevention, the request for resources is always grassife 	nents a priori

	4.00 Bookmark □
Checking quality of software in both simulated and live environments is known as	
○ Validation	
○ Verification	
© Checking	
⊙ Usability	
	1.00
Question No.13	4.00 Bookmark
Consider the CFG with {S,A,B) as the non-terminal alphabet, {a,b) as the terminal alpha	
start symbol and the following set of production rules	
S>aB S>bA	
B> b A> a B>bS A>aS	
B>aBB A>bAA	
Which of the following strings is generated by the grammar?how many derivation trees	are there?
○ aabbab,2	
○ aabbbb,1	
○ aaaabb,2	
© aabbbab,1	
Question No.14	4.00 Bookmark ┌┐
What will happen when defining the enumerated type?	BOOKINAIK
 It will not allocate memory to its variables 	
It will allocate memory at run time	
 It will not allocate memory 	
 It will allocate memory 	
Question No.15	4.00
The inorder and preorder traversal of a binary tree are d b e a f c g and a b d e c f g , re	Bookmark
	, ,
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	
The postorder traversal of the binary tree is:	

	4.00 Bookmark <u></u>
How do you represent "All dogs have tails"	Paramati A
$\circ Y_{\mathbf{X}}$:	
$dog(x) \rightarrow$	
hasàtail(x)	
° $\forall x: dog(x) \rightarrow$	
hastail(y)	
nastan(y)	
° $\forall x: dog(y) \rightarrow$	
hastail(x)	
$0 \text{ Vm} dog(n) \rightarrow$	
° $\forall x: dog(x) \rightarrow$	
hastail(x)	
Question No.17	4.00
	Bookmark
Consider the grammar $E \rightarrow E + n E \times n n$	
For a sentence $n + n \times n$, the handles in the right-sentential form of the reduction are	
\circ n, E + n and E + E × n	
\circ n, E + n and E + n × n	
\circ n, n + n and n + n × n	
☉ n, E + n and E × n	
Question No.18	4.00 Bookmark ⊡
Tables in second normal form (2NF):	
 Have all non key fields that depend on the whole primary key 	
 Eliminate all hidden dependencies 	
 Eliminate the possibility of a insertion anomalies 	
O Have a composite key	
Question No.19	4.00
Which of the following is method of JDBC batch process?	Bookmark 🗖
© addBatch()	
• deleteBatch()	
⊂ removeBatch()	
○ setBatch()	
Question No.20	4.00
Question No.20	Bookmark 🗖
Question No.20 Transport layer aggregates data from different applications into a single stream before p	Bookmark 🗖
Question No.20 Transport layer aggregates data from different applications into a single stream before p O Application layer	Bookmark 🗖
Question No.20 Transport layer aggregates data from different applications into a single stream before p	Bookmark 🗖
Question No.20 Transport layer aggregates data from different applications into a single stream before p O Application layer	Bookmark 🗖

	4.00 Bookmark
rom which tag descriptive list starts?	
с <dd></dd>	
° <ll></ll>	
° <dl></dl>	
° <ds></ds>	
Question No.22	4.00
	Bookmark
ohn is asked to make an automaton which accepts a given string for all the occurrence of ' low many number of transitions would John use such that, the string processing application	
© 11	WOIKS:
C 15	
C 12	
© 9	
Question No.23	4.00
	Bookmark 🔽
Vhich one of the following task is not done by data link layer? C Framing	
© Flow control	
© Channel coding	
© Error control	
Question No.24	4.00 Bookmark
he clause is used to list the attributes desired in the result of a query.	P
© From	
© Where	
© Distinct	
© Distinct	4.00
© Distinct © Select	4.00 Bookmark ⊡
 Distinct Select Question No.25 Relect the Pair that best respresents the relationship that is given in the question: Professor : Erudite	
 Distinct Select Question No.25 Select the Pair that best respresents the relationship that is given in the question: Professor : Erudite Carpenter : Furniture 	
 Distinct Select Question No.25 Relect the Pair that best respresents the relationship that is given in the question: Professor : Erudite Carpenter : Furniture Mason : Architecure 	
 Distinct Select Question No.25 Select the Pair that best respresents the relationship that is given in the question: Professor : Erudite Carpenter : Furniture 	





Question No.36	4.00
	Bookmark □
Statement: Opening a Library in Achupatti will be a wastage.	DOOKINAIK
Assumptions:	
I. Inhabitants of Achupatti are illiterate.	
II. Inhabitants of Achupatti are not interested in reading	
 If only assumption II is implicit 	
If neither I nor II is implicit	
○ If both I and II are implicit	
If only assumption I is implicit	
Question No.37	4.00
book : : : comb : tooth	DOOKINAIK
© Knowledge	
O Title	
C Page	
© Cover	E comb : tooth e Bookmark A.00 Bookmark
Question No.38	
	Bookmark 🗖
Dad often comes home late these days,?	
O isn't it?	
○ does he?	
○ doesn't he?	
☉ is it?	
Question No.39	
	4.00
	4.00 Bookmark □
Graph Colouring is thetype of algorithm design strategy	
Graph Colouring is thetype of algorithm design strategy	
Graph Colouring is thetype of algorithm design strategy © Branch and Bound	
Graph Colouring is thetype of algorithm design strategy	
Graph Colouring is thetype of algorithm design strategy	
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Graph Colouring is thetype of algorithm design strategy	
Graph Colouring is thetype of algorithm design strategy	
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy 	Bookmark 🗖
Graph Colouring is thetype of algorithm design strategy	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40	Bookmark 🗖
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 1 Kbits 	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 1 Kbits 2 Kbits 	Bookmark 4.00 Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 1 Kbits 	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 1 Kbits 2 Kbits 	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 2 Kbits Question No.41 Psychologist : Neurosis	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 1 Kbits 2 Kbits Question No.41 Psychologist : Neurosis Opthamologist : Catract 	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 1 Kbits 2 Kbits Question No.41 Psychologist : Neurosis Opthamologist : Catract Oncologist: Measles 	Bookmark
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 1 Kbits 2 Kbits Question No.41 Psychologist : Neurosis Opthamologist : Catract Oncologist: Measles Dermatologist: Sprain 	Bookmark 4.00 Bookmark 4.00
Graph Colouring is thetype of algorithm design strategy Branch and Bound Dynamic Programming Backtracking Greedy Question No.40 The amount of ROM needed to implement a 4 bit multiplier is 64 bits 128 bits 1 Kbits 2 Kbits Question No.41 Psychologist : Neurosis Opthamologist : Catract Oncologist: Measles 	Bookmark 4.00 Bookmark 4.00

Question No.42

4.00 Bookmark □

Which testing is the re-execution of some subset of tests that have already been conducted to ensure the changes that are not propagated?

C Thread-based testing

- Integration testing
- C Regression testing
- O Unit testing

Question No.43

4.00

Bookmark

What kind of approach was introduced for elicitation and modelling to give a functional view of the system?

- O Use Cases (by Jacobson)
- Object Oriented Design (by Booch)
- C Object Modeling Technique (by Rambaugh)
- C Fusion (by Coleman)

Question No.44

Bookmark

4.00

If one uses straight two-way merge sort algorithm to sort the following elements in ascending order 20, 47, 15, 8, 9, 4, 40, 30, 12, 17 then the order of these elements after the second pass of the algorithm is:

C 8, 15, 20, 47, 4, 9, 30, 40, 12, 17

C 4, 8, 9, 15, 20, 47, 12, 17, 30, 40

C 15, 20, 47, 4, 8, 9, 12, 30, 40, 17

C 8, 9, 15, 20, 47, 4, 12, 17, 30, 40

Question No.45

Bookmark

4.00

Some code optimizations are carried out on the intermediate code because

- $\ensuremath{\mathbb{C}}$ The information from the front end cannot otherwise be used for optimization
- O the information from dataflow analysis cannot otherwise be used for optimization
- C They enhance the portability of the compiler to other target processors
- O program analysis is more accurate on intermediate code than on machine code

Question No.46

4.00 Bookmark □

How much number of times the instruction sequence below will loop before coming out of the loop? A1: MOV AL, 00H INC AL JNZ A1

01

- Will not come out of the loop
- O 256
- 0 255

Question No.47

4.00 Bookmark

Choose the correct meaning of the italicized idiom. When Peter left he was extremely disappointed. I think he has *gone for good*.

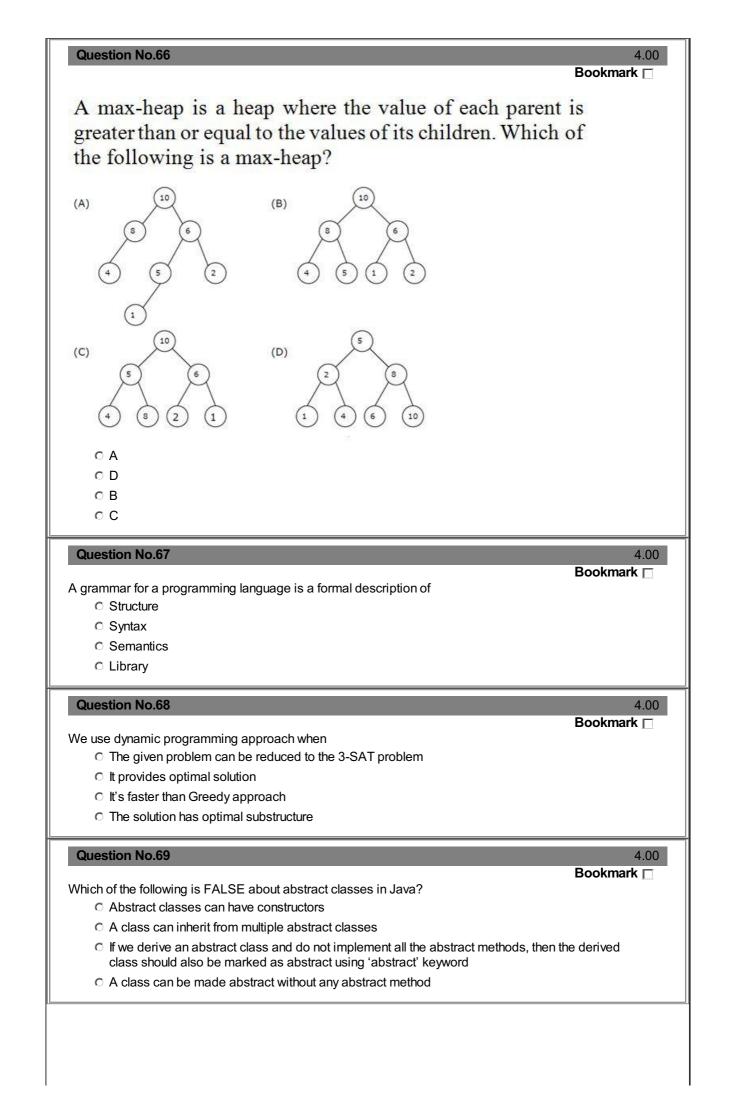
- To seek good fortune
- C Permanently
- C To a foreign country
- C To a good place

Question No.48	4.00 Bookmark □
Statements: Stories are True, All true incidents are rumours.	
Conclusion:	
. Stories are rumours.	
 Rumours are stories If only conclusion I follows 	
 If only conclusion II follows 	
 If either I or II follows 	
 If neither I nor II follows 	
Question No.49	4.00
Macro processor is an inbuilt function of	Bookmark
© Loader	
© Assembler	
© Linker	
© Editor	
Question No.50	4.00 Bookmark □
she had been lied to, Sally got really angry.	
© Sally when discovered	
 If Sally discovered 	
 Having discovered 	
C Sally discovered	
Sally discovered	
© Sally discovered Question No.51	4.00
Question No.51	Bookmark
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser fo	Bookmark
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens?	Bookmark
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? O n/2	Bookmark
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? o n/2 o n-1	Bookmark
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? o n/2 o n-1 o 2n-1	Bookmark
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? o n/2 o n-1	Bookmark
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? o n/2 o n-1 o 2n-1	Bookmark
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o3n-1 o3n-1 <td>Bookmark ∏ ra</td>	Bookmark ∏ ra
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o2^n	Bookmark 🗖 ra 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o2n-1 o2n-1 o2nh Question No.52 KPath is used to navigate through elements and attributes in oXHTML document	Bookmark 🗖 ra 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o2^n	Bookmark 🗖 ra 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? 0 n/2 0 n-1 0 2n-1 0 2^n Question No.52 KPath is used to navigate through elements and attributes in	Bookmark 🗖 ra 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o2n-1 o2n-1 o2nh Question No.52 KPath is used to navigate through elements and attributes in oXHTML document	Bookmark 🗖 ra 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o2^n Question No.52 KPath is used to navigate through elements and attributes in	Bookmark 🗖 ra 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o2^n Question No.52 KPath is used to navigate through elements and attributes in	Bookmark 🗖 ra 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o2^n Question No.52 KPath is used to navigate through elements and attributes in	Bookmark r a 4.00 Bookmark C 4.00
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Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? ^o n/2 ^o n-1 ^o 2n-1 ^o 2^n ^o 2n-1 ^o 2^n ^o XHTML document ^o XML document ^o XQuery document ^o XSL document	Bookmark r a 4.00 Bookmark C 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o2^n Question No.52 KPath is used to navigate through elements and attributes in XHTML document XXL document XXL document XSL document XSL document XSL document XWL document XQuery document XSL document When an exception is thrown	Bookmark r a 4.00 Bookmark C 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? © n/2 © n-1 © 2n-1 © 2 ⁿ n Question No.52 KPath is used to navigate through elements and attributes in © XHTML document © XQuery document © XSL document © XSL document © When an exception is thrown © When a requested page is in memory	Bookmark r a 4.00 Bookmark C 4.00
Question No.51 What is the maximum number of reduce moves that can be taken by a bottom-up parser for grammar with no epsilon- and unit-production to parse a string with n tokens? on/2 on-1 o2n-1 o2^n Question No.52 KPath is used to navigate through elements and attributes in XHTML document XXL document XXL document XSL document XSL document XSL document XWL document XQuery document XSL document When an exception is thrown	Bookmark r a 4.00 Bookmark C 4.00

Question No.54 4.00 Bookmark Which is not Familiar Connectives in First Order Logic? ⊂ not ○ and O or O iff **Question No.55** 4.00 Bookmark If a class B network on the Internet has a subnet mask of 255.255.248.0, what is the maximum number of hosts per subnet? O 1023 O 1022 C 2047 C 2046 **Question No.56** 4.00 Bookmark Kotlin is a O Protocol C Programming language ○ Platform O None of these **Question No.57** 4.00 Bookmark A point P (5,1) is rotated by 90° about a pivot point (2,2). What is the coordinate of new transformed point P'? C (1,5) O (2,4) **O** (5,3) C (3,5)

Question No.58	4. Bookmark Γ	00
	Bookmark	
Consider a pipelined	d processor with the following four stages:	
EX: Execute WB: Write Back The IF, ID and WB	ode and Operand Fetch stages take one clock cycle each to complete the	
instruction. The ADI MUL instruction n forwarding is used	ber of clock cycles for the EX stage dependson the D and SUB instructions need 1 clock cycle and the eeds 3 clock cycles in the EX stage. Operand in the pipelined processor. What is the number of complete the following sequence of instructions?	
ADD R2, R1, R0 MUL R4, R3, R2 SUB R6, R5, R4	R2 <- R0 + R1 R4 <- R3 * R2 R6 <- R5 - R4	
 14 10 8 7 		
Question No.59		00
	Bookmark given picture definition into a set of pixel-intensity for storage in the frame	
The process of digitizing a buffer is called O Encoding		
buffer is called		
buffer is called © Encoding		

	4.00 Bookmark □
C 4	
O 1	
02	
03	
Question No.61	4.00
The time taken to switch between user and kernel modes of execution be t1 while the	Bookmark
switch between two processes be t2. Which of the following is TRUE?	
○ t1 > t2	
○ t1 < t2	
o nothing can be said about the relation between t1 and t2.	
○ t1 = t2	
Question No.62	4.00
A RAM chip has a capacity of 1024 words of 8 bits each (1K × 8). The number of 2 ×	Bookmark
enable line needed to construct a $16K \times 16$ RAM from $1K \times 8$ RAM is:	
C 4	
O 5	
○ 6	
07	
Question No.63	4.00
Changes the enterum of the iteligized word	Bookmark
Choose the antonym of the italicized word. The habit of <i>squandering</i> money should not be encouraged.	
© discarding	
© hoarding	
C saving	
© collecting	
<u> </u>	
Question No.64	4.00
partitions data and parity among all N+1 disks, instead of storing c	Bookmark 🗖 data in N-disks
and parity in one disk.	
 Bit interleaved parity 	
 Block interleaved parity 	
 Bit parity 	
 Block interleaved distributed parity 	
· · · · · · · · · · · · · · · · · · ·	
Question No.65	4.00
Question No.65	4.00 Bookmark ⊡
Question No.65 All the following hidden surface algorithms employ image space approach except	
Question No.65 All the following hidden surface algorithms employ image space approach except C depth sort method	
Question No.65 All the following hidden surface algorithms employ image space approach except	



	4.00 Bookmark
It is important to realize that the ties that bind us together in common activity are so can disappear at any moment.	that they
○ restrictive	
C tenuous	
C tentative	
C tenacious	
Question No.71	4.00
Consider a hypothetical processor with an instruction of type LW R1, 20(R2), which during reads a 32-bit word from memory and stores it in a 32-bit register R1. The effective addres memory location is obtained by the addition of a constant 20 and the contents of register the following best reflects the addressing mode implemented by this instruction for operation memory?	ess of the R2. Which of
Immediate Addressing	
C Base Indexed Addressing	
C Register Addressing	
C Register Indirect Scaled Addressing	
Question No.72	4.00
	Bookmark
The interemediate code in .NET framework is called as	
© Byte Code	
○ Soft Code	
O MSIL	
C None of the these	
Question No.73	4.00
In Random forest you can generate hundreds of trees (say T1, T2Tn) and then aggreg results of these tree. Which of the following is true about individual(Tk) tree in Random Fo 1. Individual tree is built on a subset of the features 2. Individual tree is built on all the features 3. Individual tree is built on a subset of observations	
4. Individual tree is built on full set of observations	
© 2 and 3	
© 1 and 3	
© 1 and 4	
© 2 and 4	
Question No.74	4.00
	4.00 Bookmark ⊡
In the absolute addressing mode	
In the absolute addressing mode C The address of the operand is inside the instruction	
In the absolute addressing mode C The address of the operand is inside the instruction C The operand is inside the instruction	
In the absolute addressing mode C The address of the operand is inside the instruction	

Question No.75 4.00 Bookmark Wumpus World is a classic problem, best example of, C Reasoning with Knowledge C Single player Game C Optimisation problem C Two player Game **Question No.76** 4.00 Bookmark A* algorithm is based on C Depth-First –Search C Breadth-First-Search O Best-First-Search • Hill climbing **Question No.77** 4.00 Bookmark A server at 10% load is having 308 watts power and at 50% load is having 451 watts of power, saving is C 2.4 0 2.1 O 5.4 O 3.4 **Question No.78** 4.00 Bookmark How many undirected graphs (not necessarily connected) can be constructed out of a given set V= $\{V_1, V_2, \dots, V_n\}$ of n vertices ? О n!О $2^{(n(n-1)/2)}$ ○ n(n-l)/2 С 2^n Question No.79 4.00 Bookmark In web application domain, RIA stands for C Rich Information Apps C Rich Internet Applications C Rare Internet Apps O All of these **Question No.80** 4.00 Bookmark In Pentium processor, which write buffer is used by the pipeline ALUs in order to write the result to the memory? C Line Replacement Write Buffer O Internal Snoop Write Buffer C External Snoop Write Buffer O Write-back Buffer

Question No.82	4.00
The finding of a path from start state to goal state is known as	Bookmark 🗖
 Simulation Classification 	
© Search	
© Planning	
Question No.83	4.00 Bookmark □
A class IntStack to implement a stack of integers is defined as follow	
class IntStack {	5
public:	
IntStack();	
bool isEmpty(); void push(int item);	
int pop();	
int top();	
} What happens if we execute the following statements?	
IntStack s;	
int n1, n2, n3;	
s.push(10);	
s.push(123); s.push(42);	
nl = s.pop();	
n2 = s.top();	
s.push(n1);	
n3 = s.pop(); n1 = s.top();	
 Stack contains 123 (top), 10 (bottom); n1=123, n2=123, n3=42 	
• Stack contains 42 (top), 42, 123, 10 (bottom); n1=42, n2=42; n3=42	
 Stack contains 42 (top), 10 (bottom); n1=42, n2=123, n3=143 Stack contains 123 (top), 10 (bottom); n1=42, n2=42, n3=42 	

Question No.84 4.00 Bookmark Consider the following context-free grammar over the alphabet $\Sigma = \{a, b, c\}$ with S as the start symbol: $S \rightarrow abScT \mid abcT$ $T \rightarrow bT \mid b$ Which of the following represents the language generated by the above grammar? O $\{(ab)^n(cb^m)^n \mid n \ge 1\}$ 0 $\{(ab)^n(cb^m)^n \mid n \ge 1\}$ O $\{(ab^{n}cb^{m}_{1}cb^{m}_{2}...cb^{m}_{n} | n, m_{1}, m_{2}, ..., m_{n} \ge 1\}$ О $\{(ab)^n(cb)^n \mid n \ge 1\}$

Question No.85

Bookmark

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Storage mapping is done by

- C Loader
- C Operating system
- Compiler
- C Linker

Question No.86

Which of the following is TRUE?

- A relation R is in 3NF if every non-prime attribute of R is fully functionally dependent on every key of R
- Every relation in 3NF is also in BCNF
- No relation can be in both BCNF and 3NF
- Every relation in BCNF is also in 3NF

Question No.87

Bookmark

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Consider a hash table of size seven, with starting index zero, and a hash function $(3x + 4) \mod 7$. Assuming the hash table is initially empty, which of the following is the contents of the table when the sequence 1, 3, 8, 10 is inserted into the table using closed hashing? Note that '_' denotes an empty location in the table.

1, _, _, _, _, _, 3
1, 10, 8, _, _, _, 3
8, _, _, _, _, 10
1, 8, 10, _, _, _, 3

Question No.88	4.0 Bookmark □
Consider the following table of arrival time and burst time for the	hree
processes P0, P1 and P2.	linee
Process Arrival time Burst Time	
PO = 0 ms = 9 ms	
P1 1 ms 4 ms	
P_2 2 ms 9 ms	
The pre-emptive shortest job first scheduling algorithm is u	head
Scheduling is carried out only at arrival or completion of proces	
What is the average waiting time for the three processes?	505.
what is the average warding time for the three processes.	
© 5.0 ms	
© 6.33ms	
0 4.33 ms	
C 7.33ms	
Question No.89	4.0
	4.0 Bookmark □
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Question No.92	4.00
	Bookmark
In the context of modular software design, which one of the following combinations is desi	
 High cohesion and low coupling 	
High cohesion and high coupling	
C Low cohesion and high coupling	
C Low cohesion and low coupling	
Question No.93	4.00 Bookmark □
Study the following information carefully and answer the question below it	
Lakshman passes through seven lanes to reach his school. He finds that 'Truth lane' is be house and 'Lie lane'. The third lane from his school is 'Karma lane'. 'Dharma lane' is imm before the 'Yog lane'. He passes 'Salvation lane' at the end, 'Lie lane' is between 'Truth la 'Dharma lane', the sixth lane from his house is 'Devotion lane'.	ediately
How many lanes are there between 'Lie lane' and 'Devotion lane'?	
⊂ two	
O five	
© three	
O four	
Question No.94	4.00 Bookmark □
Question No.94	4.00 Bookmark ⊡
	Bookmark 🖂
A minimum state deterministic finite automaton accepti	Bookmark 🗆
A minimum state deterministic finite automaton accept the language L={w w ε {0,1} *, number of 0s and 1s in	Bookmark 🗆
A minimum state deterministic finite automaton accepti	Bookmark 🗆
A minimum state deterministic finite automaton accept the language L={w w ε {0,1} *, number of 0s and 1s in	Bookmark 🗆
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A minimum state deterministic finite automaton accept the language L={w w ε {0,1} *, number of 0s and 1s in are divisible by 3 and 5, respectively} has c 10 states	Bookmark 🗆
A minimum state deterministic finite automaton accepts the language L={w w ε {0,1} *, number of 0s and 1s in are divisible by 3 and 5, respectively} has ° 10 states ° 9 states	Bookmark 🗆
A minimum state deterministic finite automaton accepts the language L={w w ε {0,1} *, number of 0s and 1s in are divisible by 3 and 5, respectively} has ⁰ 10 states ⁰ 9 states ⁰ 15 states ⁰ 11 states	Bookmark □ ing i w
A minimum state deterministic finite automaton accepts the language L={w w ε {0,1} *, number of 0s and 1s in are divisible by 3 and 5, respectively} has ° 10 states ° 9 states ° 15 states	Bookmark 🗆
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Question No.97			4.00
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A process executes	the code		
fork();			
fork(); fork();			
	child processes created is		
C 4			
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Encapsulation and a	abstraction are defined as:		Doonnann
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	ng concurrency control protoco	ols ensure both conflict serializability a	and freedom
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II. Time-stamp order	ing		
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