PU M Tech Comp Science and Engineering

105	f 100 5 PU_2015_376 at do you call the selected keys in the quick sort method?
_	Inner Key
0	Outer key
0	Partition key
O	Pivot key
163 A c	f 100 3 PU_2015_376 omparison of frequency division and time division multiplexing system shows that:-
0	FDM requires a lower bandwidth, but TDM has greater noise immunity
0	FDM requires more multiplex while TDM requires band pass filter
0	FDM has greater noise immunity and requires lower bandwidth than TDM
0	FDM requires channel synchronization, while TDM has greater noise immunity
122	f 100 2 PU_2015_376 2 process of removing the deficiencies and loopholes in the data is called as:- Cleaning up of data Loading of data Aggregation of data Extracting of data
162	f 100 PU_2015_376 at is the baud rate of the standard 10 Mbps Ethernet? 40 megabaud 10 megabaud 30 megabaud 20 megabaud
139 Ass The	f 100 9 PU_2015_376 sume that a program will experience 200 failures in infinite time. It has now experienced 100 failures. e initial failure intensity was 20 failures/CPU hr. Then the current failure intensity will be:-
0	5 failures/CPU hr
O	40 failures /CPU hr
0	10 failures/CPU hr

C 20 failures/CPU hr
6 of 100 206 PU_2015_376 Which UML diagram provides a variety of symbols and encompasses a number of ideas, all to model the changes which just one object goes through?
Class
State
Package
Object
7 of 100 169 PU_2015_376 Which of the following signal is not standard RS-232-C signal?
° _{VDR}
CTS
C DSR
C RTS
8 of 100 120 PU_2015_376 In a priority queue, insertion and deletion takes place at:- only at rear end any position only at front end
front, rear end
9 of 100 186 PU_2015_376 Let L1= {10,1) and L2= {011,11}. Then L1,L2 =
C {10011, 1011, 111}
C {1011, 101, 10101}
C {1011, 0011, 1111}
All of the above
10 of 100 124 PU_2015_376 Data warehouse bus matrix is a combination of:-
Facts and data marts
Dimensions and data marts

~	Dimensions and facts
0	Dimensions and detailed facts
115	of 100 PU_2015_376 at value would be stored in an integer variable "i" as a result of the following expression?
	j = 3; $i = 4 + 2 * j/(j-1)$;
0	1
0	8
0	7
0	9
109 The	of 100 PU_2015_376 memory address of the first element of an array is called:-
0	base address
0	foundation address
0	floor address
О	first address
140	of 100 PU_2015_376 final form of testing COTS software istesting.
0	Beta
0	Integration
0	Alpha
0	Unit
138 The	of 100 PU_2015_376 maturity levels used to measure a process are:-
0	Initial, Stating, Defined, Managed, Optimized
0	Primary, Secondary, Defined, Managed, Optimized
0	Initial, Repeatable, Defined, Managed, Optimized.
0	Managed Optimized
201	of 100 PU_2015_376 wo pass assembler the object code generation is done during the?
	Second pass

0	First pass	
0	Zeroeth pass	
0	Not done by assembler	
133	of 100 8 PU_2015_376 and-shake based protocol for data transfer is an example of Parallel Asynchronous Synchronous	type of data transfer.
0	Serial	
132	of 100 PU_2015_376 ich of the following is false related to Stack?	
	Useful for nested loops, subroutine calls etc	
0	Stack Pointer points to the top most element of the stack	
0	Only PUSH and POP operations are applicable	
0	Implements FIFO	
178	of 100 BPU_2015_376 ctals deal with curves that are?	
0	irregularly regular	
0	regularly irregular	
0	Irregularly irregular	
0	Regularly regular	
19 of 100 148 PU_2015_376 Flow Control in data communications:-		
0	Can be implemented using a CSMA/CD Protocol	
0	Makes a channel with error	
0	Can be implemented using a Stop-and-Wait Protocol	
	Makes a channel an error-free one	
200 Pro	of 100 PU_2015_376 cess is:-	
0	a job in secondary memory	

0 0	contents of main memory a program in execution Program in High level language kept on disk
177 E-C O O O	PU_2015_376 houpal refers to:- Online reservation system for Airlines calling meeting of Surpanches electronically providing window of information to villagers and farmers in NIC network conducting Panchayat meeting using latest electronic gadgets
106	of 100 PU_2015_376 y many nodes does a complete binary tree of level 5 have? 31 15 32 16
154	PU_2015_376 at type of relationship exists between a Student table and Fees table? Many to many One to many and many to many One to many One to one
207 Whi	PU_2015_376 ch relationship specifies an optional behavior? An aggregation An extend An inheritance A generalization PU_2015_376 PU_2015_376

164 PU_2015_376 If carrier modulated by a digital bit stream, has one of the possible phase of 0, 90, 180 and 270 degrees, then modulation called:-

O QP	SK
yacc is a DO UN	00 _2015_376 available as a command on the? OS IIX IIX
Sat C Inca C Wa	2015_376 color is related to? turation andescence avelength minance
Phy Pre	2015376 tion and encryption of data are the responsibility of which of the following layer ? ysical layer esentation layer ta Link layer ssion layer
Which of Pace Correct Mest Correct Cor	_2015_376 of the following switching techniques is most suitable for interactive traffic? cket switching cuit switching essage switching ntext Switching

What do you call, "where the Objects hide their inner workings of their operations from the outside wo and from other objects"?	rld
Generalization	
© Encapsulation	
Composition	
Polymorphism	
31 of 100 176 PU_2015_376 The mechanism that binds code and data together and keeps them secure from outside world is known as:- Inheritance Polymorphism Abstraction	vn
© Encapsulation	
32 of 100 118 PU_2015_376 What is the output of the following program?	
#include <stdio.h></stdio.h>	
int c [10]={1,2,3,4,5,6,7,8,9,10};	
main ()	
$\{ int \ a,b=0;$	
for(a=0;a<10;++a)	
if(c[a]%2==1)	
b + = c[a];	
printf ('%d", b);}	
° ₂₅	
° ₂₀	
C 52	
C 24	
33 of 100 114 PU_2015_376 What is the output of the following statements?	
for(I = 10; I++; I<15) printf("%d", I);	
910111213	

0	1011121314
\circ	101112131415
0	It will go to infinite loop
150 Fort	of 100 PU_2015_376 y stations are on an Ethernet LAN. A 10-port bridge segments the LAN. What is the effective average rate of each station?
0	2.0 Mbps
0	5.0 Mbps
0	1.0 Mbps
0	2.5 Mbps
121	PU_2015_376 ch of the following is the most important when deciding on the data structure of a data mart?
0	Metadata naming conventions
Ö	XML data exchange standards
0	Data access tools to be used
~	Extract, Transform, and Load (ETL) tool to be used
166	of 100 PU_2015_376 ch of the following TCP/IP Internet protocol is diskless machine uses to obtain its IP address from a er?
0	X.25
0	RIP
0	ARP
0	RAP
205	of 100 PU_2015_376 hich addressing mode the operand is given explicitly in the instruction?
0	Index mode
0	Absolute mode
0	Immediate mode
0	Indirect mode
168	of 100 PU_2015_376 works that use different technologies can be connected by using?

0	Routers
0	Packets
0	Switches
0	Bridges
136	PU_2015_376 B is bytes. 1 073 741 826 1 073 741 828 1 073 741 821 1 073 741 824
117	PU_2015_376 ch of the following is a LOOP statement of a C language? Do While While -Do For For and Do-While
161	of 100 PU_2015_376 ch one of the following media is multidrop?
0	Thick Coaxial cable
0	Shielded Twisted pair cable
0	Unshielded Twisted pair cable
0	Fiber Optic cable
134 If 1's	of 100 PU_2015_376 s are mapped in a k-map the Boolean function is in the form:-
0	Subtraction and divide
0	Product of sums
0	Addition and subtraction
0	Sum of products
	of 100 PU 2015 376

Which one manages both current and historic transactions?

0	OLAP	
0	XML	
0	Spread sheet	
0	OLTP	
153 The and	of 100 PU_2015_376 SQL Expression Select distinct T. branch name from branch T, branch S where T. assets > S. assets S. branch-city = DELHI, finds the name of:-	
0	all branches that have greater assets than allocated in DELHI	
0	all branches that have greater asset than any branch located in DELHI	
0	the branch that has the greatest asset in DELHI	
0	any branch that has greater asset than any branch located in DELHI	
116	PU_2015_376 a [5]={1,2,3} what is the value of a[4]? 3 Garbage value 1 0	
46 of 100 193 PU_2015_376 Registers, which are partially visible to users and used to hold conditional, are known as:-		
0	General purpose register	
0	PC	
0	Memory address registers	
0	Flags	
208 Whi	of 100 PU_2015_376 ch among the following literally means 'many forms', the concept that different objects can respond to same message in different ways?	
О	Polymorphism	
0	Aggregation	
0	Composition	
0	Encapsulation	

48 of 100

	PU_2015_376 ch of the following is an appl	ication of stack?	
0	Graph Coloring		
	infix to postfix conversion		
0	Finding subset		
0	Scheduling		
135	of 100 PU_2015_376 ating point is always interpret Me * r	ed to represent a number in the following form:-	
0	Er*m		
0	M * e		
0	M * re		
194	of 100 PU_2015_376 e of the main feature that dist	inguish microprocessors from micro-computers is:-	
0	Words are shorter in microprocessors		
0	Microprocessor does not contain I/O devices		
0	exactly the same as the machine cycle time		
0	Words are usually larger in microprocessors		
51 of 100 141 PU_2015_376 In the maintenance phase the product must be testing. Module		roduct must be tested against previous test cases. This is known as	
0	Integration		
0	Regression		
0	Unit		
160	of 100 PU_2015_376 ch the following:-		
a.	Data link layer	i. Flow control	
b.	Network layer	ii. Node to node delivery	
c.	Transport layer	iii. Mail services	
d.	Application layer	iv Routing	

0	a-ii, b-iv, c-iii, d-i
0	a-ii, b-i, c-iii, d-iv
0	a-ii, b-i, c-iv, d-iii
0	a-ii, b-iv, c-i, d-iii
202 Outp	PU_2015_376 out file of the Lex is is the input file is Myfile. Myfile.obj Myfile.yy.c Myfile.lex Myfile.e
203	PU_2015_376 e checking is normally done during? Syntax directed translation Code generation Syntax analysis Lexical analysis
107	of 100 PU_2015_376 disadvantage in using a circular linked list is:-
0	It is possible to get into infinite loop.
0	Time consuming
0	Requires more memory space
0	Last node points to first node.
137	of 100 PU_2015_376 ch one of the following is not a key process area in CMM level 5?
0	Technology change management
0	Software product engineering
0	Defect prevention
0	Process change management
	of 100

151 PU_2015_376
The "PROJECT" operator of a relational algebra creates a new table that has always:-

0	More columns than columns in original table
0	Same number of rows as the original table
0	Same number of columns as the original table
0	More rows than original table
17	5 of 100 5 PU_2015_376 hat is the meaning of 'Hibernate' in Windows XP/Windows 7? Restart the computers in normal mode
0	·
0	
0	
	Restart the computers in safe mode
15	of 100 2 PU_2015_376 e employee information of an Organization is stored in the relation:-
I	Employee (name, sex, salary, deptname)
(Consider the following SQL query
S	select deptname from Employee Where sex = 'M' group by deptname
ŀ	naving avg(salary) > {select avg(salary) from Employee}
(Output of the given query corresponds to
0	Average salary of employee more than average salary of the organization.
0	Average salary of male employees in a department is more than average salary of the organization.
0	Average salary less than average salary of the organization.
0	Average salary of employee equal to average salary of the organization.
14 Th	of 100 9 PU_2015_376 e acronym ADSL stands for:-
0	Asynchronous Data Specific language
0	Aperture Distance of Satellite Link
0	Asymmetric Digital Subscriber Line
0	Analog and Digital Synchronous Link
25	of 100 4 PU_2015_376 asymmetric key cryptography, the private key is kept by:-
4,	receiver

0	Sender
0	sender and receiver
0	all the connected devices to the network
249	of 100 PU_2015_376 ch is not true about the memory management?
_	segmentation suffers from external fragmentation
0	virtual memory is used in multi-user system
0	paging suffers from internal fragmentation
O	segmented memory can be paged
251 ICM	of 100 PU_2015_376 P is primarily used for:-
0	forwarding
0	error and diagnostic functions
0	addressing
0	none of the mentioned
247	of 100 PU_2015_376 ashing:-
0	can always be avoided by swapping
0	can be caused by poor paging algorithms
0	always occurs on large computers
0	is a natural consequences of virtual memory system
253	of 100 PU_2015_376 abset of a network that includes all the routers but contains no loops is called:-
0	Spanning tree
0	spider structure
0	spider tree
0	none of the above
246 Con	of 100 PU_2015_376 verting bitmaps to drawn object is more difficult and is called:-
0	autotracing

0	Dithering
0	Morphing
0	Leading
252	of 100 PU_2015_376 relation is in BCNF then it is in:- 3 NF 1 NF 1 NF and 2 NF
236 With by:-	of 100 PU_2015_376 n QBE, inserting records from one or more source tables into a single target table can be achieved
0	Update action query
0	Insert action query
0	Append action query
0	Make table action query
232	of 100 PU_2015_376 postfix equivalent of the prefix * + ab - cd is? ab + - cd * ab + cd * - abcd + - * ab + cd - *
235 The	of 100 PU_2015_376 minimum number of cards to be dealt from an arbitrarily shuffled deck of 52 cards to guarantee that e cards are from some same suit is?
0	8
0	3
0	12
238	of 100 PU_2015_376 =Oxaa and b=a<<1 then:-

0	a=b-1
0	b=a-1
O	b=2a
0	b=a/2
250	PU_2015_376 DR gate can be imagined as:- MOS transistors connected in series Switches connected in series switches connected in parallel All of the above
233 Let /	PU_2015_376 A and B be any two arbitrary events then which one of the following is true? $P(A \text{ union B}) = P(A) + P(B)$ $P(A \text{ intersection B}) = P(A) \cdot P(B)$ $P(A \text{ union B}) >= P(A) + P(B)$ $P(A \text{ union B}) >= P(A) + P(B)$ $P(AB) = P(A \text{ intersection B}) \cdot P(B)$
	of 100 PU_2015_376is a shorthand representation of music stored in numeric form.
0	MIDI
0	Audio Resolution
0	Digital Audio
0	Mono files
231	of 100 PU_2015_376 complexity of binary search algorithm is? n n² logn
0	nlogn
7.0	
76 d	of 100

224 PU_2015_376
JavaBeans Event Model is also known as:-

0	The Event Foundation Model
0	The Event Delegation Model
0	The Event Service Model
0	The Event Beans Model
237 An a	of 100 PU_2015_376 attribute or set of attributes within one relation that matches the candidate key of some (possibly the ne) relation:- Candidate key Super Key Primary key
0	Foreign key
248 Mer	of 100 PU_2015_376 mory management is:-
0	replaced with virtual memory on current system
0	not used on multiprogramming systems
0	critical for even the simplest operating system
0	not used in modern operating system
234	of 100 PU_2015_376 is an undirected planer graph on n vertices with e edges then? e<=3n
0	e<=n
0	e<=2n
0	None of the above
223 Whi	of 100 PU_2015_376 ich of the following supports the capability of returning pointers to other interfaces through COM ect?
0	Query interface
0	Hardware interface
0	Software interface
0	Query Control

81 of 100

An	PU_2015_376 actor in an animation is a small program invokedaracteristics of some object in the animation.	_per frame to determine the
0	once	
0	30 times	
0	twice	
0	60 times	
286	of 100 6 PU_2015_376 iich of the following formulas in Omega notation best represent the 6	expression n²+35n+6?
0	Ω (n ³)	
0	Ω (35)	
0	Ω (n ²)	
	Ω (n)	
288	of 100 3 PU_2015_376 press the formula (n - 2)*(n - 4) using θ notation:-	
0	θ (n)	
0	θ (8)	
0	θ (log n)	
0	θ (n2)	
260 Sup rea	of 100 DPU_2015_376 Depose requests have recently arrived for data on cylinders 25, 46, 1. d-write head is currently at cylinder 20. If the disk scheduling policy be serviced in the order	
-0	25, 12, 3, 46	
0	3, 12, 25, 46	
0	25, 46, 12, 3	
O	25, 46, 3, 12	
287 Wh	of 100 7 PU_2015_376 at term is used to describe an O(n) algorithm?	
0	Non Polynomial Deterministic	
0	Linear	
0	Constant	

0	Logarithmic
289	of 100 9 PU_2015_376 In we read a data item at any location of a list within a constant time (i.e. O(1))?
0	Yes, only if the list is implemented by pointers (i.e. linked-list)
0	Yes
0	No, we need O(n) computation steps no matter what kind of implementation is used
0	Yes, only if the list is implemented by an array
264 Wh	of 100 PU_2015_376 ich of the following is not an objective for building analysis models?
0	Develop a solution for the problem
0	Describe customer requirements
0	Define set of software requirements that can be validated
0	Establish basis for software design
285	of 100 6 PU_2015_376 2 asymptotic notation for defining the average time complexity is:- Symmetric Reflexive Equivalence Transitive
290 Sec	of 100 PU_2015_376 quential search has a time complexity of O(n), and binary search has a time complexity of O(log(n)). at difference will it make when the size n is 1000?
0	As n is 1000, binary search is 10 times as slow as sequential search
0	As n is 1000, binary search is 10 times as fast as sequential search
0	As n is 1000, binary search is twice as fast as sequential search
	As n is 1000, binary search is 100 times as fast as sequential search.
266 In tl	of 100 5 PU_2015_376 he top level Domains, .nom specifies:-
0	non government organizations
0	Personal sites

0	Online companies and business
0	Commercial entities
281 For	PU_2015_376 every context free grammar (G) there exists an algorithm that passes any W \in L(G) in number of as proportional to:- $ w 2$ $ w $ $ w 3$ $ n w $
265 The	of 100 PU_2015_376 entity relationship diagram
0	Depicts functions that transform the data flow
0	Depicts relationships between data objects
0	Indicates system reactions to external events
0	Indicates how data are transformed by the system
282	PU_2015_376 vireless distribution system:- there is no access point multiple access point are inter-connected with each other only one access point exist none of the above
268 An i	PU_2015_376 mage is 1024*800 pixels with 3 bytes/pixel. Assume the image is uncompressed. How long does it to transmit it over a 10 -Mbps Ethernet? 19.66 seconds 0.1966 seconds 1.966 seconds

95 of 100

261 PU_2015_376

In a certain system, process A has just arrived at time 0, process B at time 3, and process C at time 6. A needs 5 seconds in the CPU, B 3 seconds, and C 1 second. All processes are totally CPU-bound and process-switching time is negligible, so that after 9 seconds all processes have completed. At what time

	s process B complete if the process-scheduling algorithm is preemptive SJF and the quantum is 1 ond?
0	7
\circ	9
0	8
0	6
283 Wh	of 100 PU_2015_376 ich multiple access technique is used by IEEE 802.11 standard for wireless LAN?
0	ALOHA
0	CDMA
0	CSMA/CA
0	none of the above
262 Wh	of 100 PU_2015_376 ich of the following is not the guiding principle of software project scheduling?
0	Effort validation
0	Time allocation
0	Compartmentalization
0	Market assessment
263	of 100 5 PU_2015_376 e rapid application development model is:-
0	A high-speed adaptation of the linear sequential model
0	A useful approach when a customer cannot define requirements clearly
0	Same as component-based development
0	Same as incremental model
284	of 100 PU_2015_376 ad the following statements carefully and pick the correct option:-
II.TI	he worst time complexity of the Floyd's algorithm is O(n3). he worst time complexity of the Warshall's algorithm is O(n3).
0	(I) is true and (II) is not true always
0	(I) is true but (II) is false
0	(I) is false but (II) is true

Both (I) and (II) are true	
100 of 100 267 PU_2015_376 In a fully connected mesh network with n devices, there areall devices.	physical channels to link
n(n-1)/2	
C 2n+1	
C _{2n}	
n(n+1)/2	

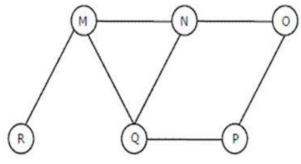
Examination: M.Tech. Computer Science and Engineering

Section 1 - Section 1

Question No.1

4.00

The Breadth First Search algorithm has been implemented using the queue data structure. One possible order of visiting the nodes of the following graph is



- O QMNPRO
- O NQMPOR
- MNOPQR
- QMNPOR

Question No.2 4.00

Bookmark □

A system program that combines separately compiled modules of a program into a form suitable for execution is

- Cross Compiler
- Assembler
- Linking Loader
- O Debugger

Question No.3 4.00

Bookmark 🔽

Consider the following declaration of a two-dimensional array in C: char a [100][100]; Assuming that the main memory is byte-addressable and that the array is stored starting from memory address 0, the address of a [40][50] is

- 0 4050
- C 5050
- C 4040
- C 5040

Question No.4	4.00
	Bookmark □
Let L1 be a recursive language. Let L2 and L3 be languages that are recursively enumer recursive. Which of the following statements is not necessarily true?	able but not
© L1 – L3 is recursively enumerable	
C L2 – L1 is recursively enumerable	
° L2 ∪ L1 is	
recursively	
enumerable	
° L2 ∩ L1 is	
recursively	
enumerable	
enumerable	
	40.
A 0 A	
Question No.5	4.00 Bookmark
The disadvantage of Binary Search is	Боокпагк 🗌
It may not work for floating point numbers	
○ It may not work for strings	
C It has the overhead of sorting	
ts performance depends on the position of the search element in the array	
Question No.6	4.00
search is not optimal with respect to space complexity.	Bookmark 🔽
© 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 re	
called as	
○ incandescence	
O persistence	
O phosphorescence	
○ fluorescence	

Choose the correct meaning of the italicized idiom. The party in power came down on the side of a flexible and early economic policy to help the weaker sections. Decide to speak secretly Decide to support Decide to go to the corner Decide to rebuke severely Question No.9 4.00 Bookmark Study the following information carefully and answer the question below it The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion are to be
The party in power came down on the side of a flexible and early economic policy to help the weaker sections. C Decide to speak secretly Decide to support Decide to go to the corner Decide to rebuke severely Question No.9 4.00 Bookmark Study the following information carefully and answer the question below it The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion are to be
sections. © Decide to speak secretly © Decide to support © Decide to go to the corner © Decide to rebuke severely Question No.9 4.00 Bookmark Study the following information carefully and answer the question below it The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion are to be
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The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion are to be
Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion are to be
organised on each day from Monday to Sunday. (i) One day there will be no lecture (Saturday is not that day), just before that day Group Discussion
will be organised.
(ii) Motivation should be organised immediately after Assessment Centre.
(iii) Quality Circle should be organised on Wednesday and should not be followed by Group Discussion
(iv) Decision Making should be organised on Friday and there should be a gap of two days between
Leadership and Group Discussion
On which day there is no lecture?
© Monday
© Tuesday
© Wednesday
© Sunday
o ounday
Question No.10 4.00
Bookmark □
Study the following information carefully and answer the question below it:
P, Q, R, S T went on a picnic. P is son of Q but Q is not the father of P. R is the son of S, who is the brother of P. T is the wife of S.
SIGNED OF THE GIVE
How many males are present in the group?
C 2
C 4
0 3
O 1
Question No.11 4.00
Bookmark Which of the following is NOT true of deadlock provention and deadlock avoidance schemes?
Which of the following is NOT true of deadlock prevention and deadlock avoidance schemes? © In deadlock prevention, the request for resources is always granted if the resulting state is
safe
© Deadlock avoidance requires knowledge of resource requirements a priori
© Deadlock avoidance is less restrictive than deadlock prevention
C In deadlock avoidance, the request for resources is always granted if the result state is safe

Question No.12	4.00
Checking quality of software in both simulated and live environments is known as Validation Verification Checking Usability	Bookmark
Question No.13	4.00
Consider the CFG with {S,A,B} as the non-terminal alphabet, {a,b} as the terminal alphabet, 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 to aabbab,2 aaabbbb,1 aaaabb,2 aabbbab,1	
Question No.14	4.00
What will happen when defining the enumerated type? It will not allocate memory to its variables It will allocate memory It will not allocate memory It will allocate memory	Bookmark
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 , respective postorder traversal of the binary tree is: o e d b g f c a o e d b f g c a o d e b f g c a o d e f g b c a	Bookmark ☐ ectively.

Question No.16	4.00
How do you represent "All dogs have tails"	Bookmark □
How do you represent "All dogs have tails" ○ \bigvee X:	
$dog(x) \rightarrow$	
hasàtail(x)	
$^{\circ}$ $\forall x: dog(x) \rightarrow$	
hastail(y)	
$^{\circ}$ $\forall x: dog(y) \rightarrow$	
hastail(x)	
$^{\circ} \forall x: dog(x) \rightarrow$	
hastail(x)	
nustun(x)	
Question No.17	4.00
	Bookmark □
Consider the grammar $E \rightarrow E + n \mid E \times n \mid n$	
For a sentence n + n × n, the handles in the right-sentential form of the reduction are	
○ n, E + n and E + E × n	
On, E + n and E + n × n	
On, n+n and n+n×n	
○ n, E + n and E × n	
Question No.18	4.00
Tables in according to (OME)	Bookmark
Tables in second normal form (2NF): O Have all non key fields that depend on the whole primary key	
© Eliminate all hidden dependencies	
© Eliminate the possibility of a insertion anomalies	
C Have a composite key	
Question No.19	4.00
Question No. 19	Bookmark
Which of the following is method of JDBC batch process?	_
o addBatch()	
C deleteBatch()	
removeBatch()setBatch()	
Scibatol()	
Question No.20	4.00
Transport layer aggregates data from different applications into a single stream before pa	Bookmark ssing it to
C Application layer	
○ Network layer	
C Physical layer	
C Data link layer	

Question No.21	4.00
From which tag descriptive list starts?	Bookmark □
C <dd></dd>	
° <ll></ll>	
° <dl></dl>	
° <ds></ds>	
Question No.22	4.00
Question No.22	4.00 Bookmark
John is asked to make an automaton which accepts a given string for all the occurrence of How many number of transitions would John use such that, the string processing applications	
O 11	400
O 15 O 12	
0 9	MA
Ourselfors No. 92	100
Question No.23	4.00 Bookmark ✓
Which one of the following task is not done by data link layer?	
FramingFlow control	
Channel coding	
© Error control	
Question No.24	4.00
The clause is used to list the attributes desired in the result of a query.	Bookmark
© From	
© Where	
C Distinct C Select	
U Select	
Question No.25	4.00 Bookmark □
Select the Pair that best respresents the relationship that is given in the question:	BOOKINAIK [
Professor : Erudite © Carpenter : Furniture	
© Mason : Architecure	
C Inventor : Imaginative	
© Entrepreneur : Hardwork	

Question No.26
When trying to access a URL, the following message is displayed on the browser:Server; Error 403 What could be the reason for the message? The requested HTML file is not available The requested HTML file or CGI script has insufficient permission. The URL refers to a CGI script and the header of the script does not indicate where the interpreter is located The first line of the output from the script is not a valid HTTP header
Question No.27 4.00
Which of these is a super class of all errors and exceptions in the Java language? ○ Throwable ○ RunTimeExceptions ○ Catchable ○ RunTimeError
Question No.28 4.00
A subset of a network that includes all the routers but contains no loops is called Spider structure Spider tree Spanning tree Spanning structure
Question No.29
Find the odd one out? Flower: Petal Circle: Arc Cover: Page Chair: Arm
Question No.30 Bookmark In a rule based system, procedural domain knowledge is in the form of Rule interpreters Control rules Production rules Meta rules

Question No.31 4.00
Bookmark ☐ Based on the information given answer the following question.
In a family of six persons, there are people from three generations. Each has separate professions
and they like different colours. There are two couples. 2. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour.
3. Chartered Accountant likes green colour and his wife is a teacher.
4. Manisha is the mother-in-law of Sunita and she likes orange colour.
5. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour.6. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes white colour.
o. Hyria to the grand daugritor of Maritona and one into blad colour. Hyria c Methor into colour.
Who is the Chartered Accountant?
○ Manisha○ Vimal
© Nyna
© None of these
Question No.32 4.00
Bookmark
Cyclomatic complexity is a
© Black box testing
O Yellow box testing
© Green box testing
Question No.33
The output of lexical analyser is Bookmark ☐
The duput of lexical analyser is
C A set of RE
O Syntax Tree
O String Character
○ Set of Tokens
Question No.34 4.00
Bookmark ☐ One day, Ravi walked a distance of 75 metres towards the north. Then he turned left and walked for
about 25 metres, he turned left again and walked 80 metres. Finally, he turned to the right at an angle
of 45°. In which direction was he moving finally?
O South-east
O South-west
North-west North-east
O North-east
Question No.35
Bookmark □
Choose the best synonym of the italicized word. Nobody knew that Sunil had a <i>sinister</i> design in marrying her.
© murderous
© sinful
© selfish
○ evil

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

Question No.42	4.00
Which testing is the re-execution of some subset of tests that have already been conducted the changes that are not propagated? © Thread-based testing	Bookmark ☐ to ensure
© Integration testing	
© Regression testing	
O Unit testing	
Question No.43	4.00
What kind of approach was introduced for eligitation and modelling to give a functional view	Bookmark
What kind of approach was introduced for elicitation and modelling to give a functional view system?	voi uie
C Use Cases (by Jacobson)	
© Object Oriented Design (by Booch)	
Object Modeling Technique (by Rambaugh)Fusion (by Coleman)	
C Tusion (by Coleman)	
Question No.44	4.00
If one uses straight two-way merge sort algorithm to sort the following elements in ascendin 20, 47, 15, 8, 9, 4, 40, 30, 12, 17 then the order of these elements after the second pass of algorithm is:	
0 8, 15, 20, 47, 4, 9, 30, 40, 12, 17	
0 4, 8, 9, 15, 20, 47, 12, 17, 30, 40	
C 15, 20, 47, 4, 8, 9, 12, 30, 40, 17	
0 8, 9, 15, 20, 47, 4, 12, 17, 30, 40	
Question No.45	4.00
	4.00 Bookmark
Question No.45 Some code optimizations are carried out on the intermediate code because The information from the front end cannot otherwise be used for optimization	
Some code optimizations are carried out on the intermediate code because The information from the front end cannot otherwise be used for optimization the information from dataflow analysis cannot otherwise be used for optimization	
Some code optimizations are carried out on the intermediate code because The information from the front end cannot otherwise be used for optimization the information from dataflow analysis cannot otherwise be used for optimization They enhance the portability of the compiler to other target processors	
Some code optimizations are carried out on the intermediate code because The information from the front end cannot otherwise be used for optimization the information from dataflow analysis cannot otherwise be used for optimization	
Some code optimizations are carried out on the intermediate code because The information from the front end cannot otherwise be used for optimization the information from dataflow analysis cannot otherwise be used for optimization They enhance the portability of the compiler to other target processors	Bookmark 4.00
Some code optimizations are carried out on the intermediate code because The information from the front end cannot otherwise be used for optimization the information from dataflow analysis cannot otherwise be used for optimization They enhance the portability of the compiler to other target processors program analysis is more accurate on intermediate code than on machine code	Bookmark <u></u>
Some code optimizations are carried out on the intermediate code because C The information from the front end cannot otherwise be used for optimization C the information from dataflow analysis cannot otherwise be used for optimization C They enhance the portability of the compiler to other target processors C program analysis is more accurate on intermediate code than on machine code Question No.46 How much number of times the instruction sequence below will loop before coming out of the A1: MOV AL, 00H INC AL JNZ A1	Bookmark 4.00 Bookmark
Some code optimizations are carried out on the intermediate code because C The information from the front end cannot otherwise be used for optimization C the information from dataflow analysis cannot otherwise be used for optimization C They enhance the portability of the compiler to other target processors C program analysis is more accurate on intermediate code than on machine code Question No.46 How much number of times the instruction sequence below will loop before coming out of the A1: MOV AL, 00H INC AL JNZ A1 C 1	Bookmark 4.00 Bookmark
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Some code optimizations are carried out on the intermediate code because The information from the front end cannot otherwise be used for optimization the information from dataflow analysis cannot otherwise be used for optimization They enhance the portability of the compiler to other target processors program analysis is more accurate on intermediate code than on machine code Question No.46 How much number of times the instruction sequence below will loop before coming out of the A1: MOV AL, 00H INC AL JNZ A1 United Will not come out of the loop 256 255 Question No.47 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	4.00 Bookmark ne loop?

Question No.48	4.00
Statements: Stories are True, All true incidents are rumours.	Bookmark □
Conclusion:	
I. Stories are rumours. II. Rumours are stories	
© If only conclusion I follows	
O If only conclusion II follows	
O If either I or II follows	
○ If neither I nor II follows	
Question No.49	4.00 Bookmark
Macro processor is an inbuilt function of	BOOKINGIK []
C 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 Hoving discovered	
Having discoveredSally discovered	
O Sally discovered	
Question No.51	4.00
What is the maximum number of reduce moves that can be taken by a bottom-up parser fo	Bookmark □
grammar with no epsilon- and unit-production to parse a string with n tokens?	or a
○ n/2	
O n-1	
O 2n-1	
C 2^n	
Question No.52	4.00
	Bookmark □
XPath is used to navigate through elements and attributes in	
O XHTML document	
C XML document	
C XQuery document	
C XSL document	
Question No.53	4.00
Page fault ecours	Bookmark
Page fault occurs © When an exception is thrown	
When a requested page is in memory	
When a page is corrupted	
When a requested page is not in memory	

	Admission A
Question No.54 Which is not Familiar Connectives in First Order Logic? onot and or iff	4.00 Bookmark □
Question No.55 If a class B network on the Internet has a subnet mask of 255.255.248.0, what is the max number of hosts per subnet? 1023 1022 2047 2046	4.00 Bookmark □
Question No.56 Kotlin is a	4.00 Bookmark
Question No.57 A point P (5,1) is rotated by 90° about a pivot point (2,2). What is the coordinate of new point P'? C (1,5) C (2,4) C (5,3) C (3,5)	4.00 Bookmark □ transformed

Question No.58 4.00

Consider a pipelined processor with the following four stages:

IF: Instruction Fetch

ID: Instruction Decode and Operand Fetch

EX: Execute WB: Write Back

The IF, ID and WB stages take one clock cycle each to complete the operation. The number of clock cycles for the EX stage dependson the instruction. The ADD and SUB instructions need 1 clock cycle and the MUL instruction needs 3 clock cycles in the EX stage. Operand forwarding is used in the pipelined processor. What is the number of clock cycles taken to complete the following sequence of instructions?

R2 < -R0 + R1ADD R2, R1, R0 MUL R4, R3, R2 R4 <- R3 * R2 SUB R6, R5, R4 R6 <- R5 - R4

0 14

O 10

0.8

07

Question No.59 4.00

Bookmark

The process of digitizing a given picture definition into a set of pixel-intensity for storage in the frame buffer is called

- Encoding
- Rasterization
- True color system
- Scan conversion

A max-heap is a heap where the value of each parent is greater than or equal to the values of its children. Which of the following is a max-heap? (A)		4.00
greater than or equal to the values of its children. Which of the following is a max-heap? (A)		Bookmark
(E) (B) (C) (C) (C) (D) (D) (D) (D) (D	greater than or equal to the values of its children. W	
Cuestion No.67 A grammar for a programming language is a formal description of Structure Syntax Semantics Library Cuestion No.68 4.00 Bookmark Bookmark Bookmark Semantics Library Cuestion No.68 4.00 Bookmark The given problem can be reduced to the 3-SAT problem It provides optimal solution It's faster than Greedy approach The solution has optimal substructure Cuestion No.69 4.00 Cuestion No.69 6.0 Cuestion No.69 6	(A) (B) (B)	
C D C B C C Question No.67 A grammar for a programming language is a formal description of C Structure C Syntax C Semantics C Library Question No.68 4.00 Bookmark Bookmark C It provides optimal solution C It's faster than Greedy approach C The solution has optimal substructure Question No.69 4.00 Bookmark About the following is FALSE about abstract classes in Java? C Abstract classes can have constructors C A class can inherit from multiple abstract classes C If we derive an abstract class and do not implement all the abstract methods, then the derived class should also be marked as abstract using 'abstract' keyword	(C) (D) 2 8	
A grammar for a programming language is a formal description of Structure Syntax Semantics Library Question No.68 4.00 Bookmark We use dynamic programming approach when The given problem can be reduced to the 3-SAT problem It provides optimal solution It's faster than Greedy approach The solution has optimal substructure Question No.69 4.00 Bookmark Which of the following is FALSE about abstract classes in Java? Abstract classes can have constructors A class can inherit from multiple abstract classes If we derive an abstract class and do not implement all the abstract methods, then the derived class should also be marked as abstract using 'abstract' keyword	C D C B	
We use dynamic programming approach when	A grammar for a programming language is a formal description of Structure Syntax Semantics	
Bookmark ☐ Which of the following is FALSE about abstract classes in Java? ○ Abstract classes can have constructors ○ A class can inherit from multiple abstract classes ○ If we derive an abstract class and do not implement all the abstract methods, then the derived class should also be marked as abstract using 'abstract' keyword	We use dynamic programming approach when The given problem can be reduced to the 3-SAT problem	
Of If we derive an abstract class and do not implement all the abstract methods, then the derived class should also be marked as abstract using 'abstract' keyword	○ It's faster than Greedy approach	
	C It's faster than Greedy approach C The solution has optimal substructure Question No.69 Which of the following is FALSE about abstract classes in Java?	

Question No.70 4.00
Bookmark ☐ It is important to realize that the ties that bind us together in common activity are so that they
can disappear at any moment.
O restrictive
O tenuous
○ tentative
© tenacious
Question No.71 4.00
Bookmark □
Consider a hypothetical processor with an instruction of type LW R1, 20(R2), which during execution reads a 32-bit word from memory and stores it in a 32-bit register R1. The effective address of the
memory location is obtained by the addition of a constant 20 and the contents of register R2. Which of
the following best reflects the addressing mode implemented by this instruction for operand in
memory?
O Immediate Addressing
© Base Indexed Addressing
© Register Addressing
Register Indirect Scaled Addressing
Question No.72 4.00
Bookmark
The interemediate code in .NET framework is called as
© Byte Code
C Soft Code
O MSIL
O None of the these
Question No.73
Bookmark
In Random forest you can generate hundreds of trees (say T1, T2Tn) and then aggregate the
results of these tree. Which of the following is true about individual(Tk) tree in Random Forest? 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 observations2 and 3
O 1 and 3
O 1 and 4
© 2 and 4
Question No.74 4.00
Bookmark 🖂
In the absolute addressing mode
The address of the operand is inside the instruction
O The operand is inside the instruction
O The register containing address of the operand is specified inside the instruction
The location of the operand is implicit

Question No.75	4.00
	Bookmark 🖂
Wumpus World is a classic problem, best example of,	
© Reasoning with Knowledge	
Single player Game	
Optimisation problem	
○ Two player Game	
Question No.76	4.00
	Bookmark □
A* algorithm is based on	
C Depth-First –Search	
C Breadth-First-Search	
© Best-First-Search	
C Hill climbing	
Question No.77	4.00
Question No.11	Bookmark □
A server at 10% load is having 308 watts power and at 50% load is having 451 watts of p	ower,
saving is	
0 2.4	
O 2.1	
0 5.4	
0 3.4	
Question No.78	4.00
	Bookmark □
How many undirected graphs (not necessarily connected) can be constructed out of a give	en set V=
$\{V_1, V_2, V_n\}$ of n vertices ?	
° n!	
0 (2007)	
2^(n(n-1)/2)	
C 17/2 IVO	
o n(n-l)/2	
° 2\hat{n}	
Question No.79	4.00
	Bookmark
In web application domain, RIA stands for	
C Rich Information Apps	
C Rich Internet Applications	
Rare Internet Apps	
○ All of these	
Question No.80	4.00
Quodion Noise	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	
○ Internal Snoop Write Buffer	
C External Snoop Write Buffer	
○ Write-back Buffer	

Question No.81	4.00 Bookmark
Which of the following focuses on the discovery of (previously) unknown properties on the d © Big Data	
C Data wrangling	
C Data mining	
© Machine Learning	
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 along IntStools to implement a stools of integers is defined as follows	DOORINGIN E
A class IntStack to implement a stack of integers is defined as follows class IntStack {	
public:	
IntStack();	P
bool isEmpty();	
void push(int item);	
int pop(); int top();	
}	
What happens if we execute the following statements?	
IntStacks;	
int n1, n2, n3;	
s.push(10); s.push(123);	
s.push(42);	
$n\hat{l} = s.pop();$	
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

 $\sum = \{a, b, c\}$ 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?

0

$$\{(ab)^n(cb^m)^n \mid n \ge 1 \}$$

(

$$\{(ab)^n(cb^m)^n \mid n >= 1 \}$$

0

$$\{(ab^{n}cb^{m}_{1}cb^{m}_{2}...cb^{m}_{n}|n, m_{1}, m_{2},, m_{n} \ge 1\}$$

 $(ab)^n(cb)^n \mid n >= 1$

Question No.85

4.00

Bookmark □

Storage mapping is done by

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

Question No.86

4.00

Bookmark □

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
- C Every relation in 3NF is also in BCNF
- O No relation can be in both BCNF and 3NF
- C Every relation in BCNF is also in 3NF

Question No.87

4 00

Bookmark \square

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.

Question No.88	4.00
	Bookmark □
Consider the following table of arrival time and burst time for thre	e
processes P0, P1 and P2.	
Process Arrival time Burst Time	
P0 0 ms 9 ms	
P1 1 ms 4 ms	
P2 2 ms 9 ms	
The pre-emptive shortest job first scheduling algorithm is used	i.
Scheduling is carried out only at arrival or completion of processes	3.
What is the average waiting time for the three processes?	
○ 5.0 ms	
© 6.33ms	
C 4.33 ms	
C 7.33ms	
Question No.89	4.00
	Bookmark □
Choose the correct meaning of the italicized idiom. Raju has a very nice manner, but you would better take what he says with a grain of salt.	
© To talk sensibly	
C To criticize	
○ To complement	
 To listen to something with considerable doubt 	
Question No.90	4.00
Which of the following addressing modes are suitable for program relocation at run time?	Bookmark □
i. Absolute addressing	
ii.Base Register Addressing	
iii.Relative Addressing iv. Indirect Addressing	
© (ii) and (iii)	
○ (i), (ii) and (iv)	
C (i) and (ii)	
○ (i) and (iv)	
Ourselfon No Od	4.00
Question No.91	4.00 Bookmark
The kind of lists best to answer "The item at position n" is,	
C List implemented using Array	
O Doubly linked lists	
Circular linked list	
Cinal linked list	
○ Singly linked list	
O Singly linked list	

Bookmark ☐ In the context of modular software design, which one of the following combinations is desirable?
High cohesion and low coupling
C High cohesion and high coupling
C Low cohesion and high coupling
C Low cohesion and low coupling
Question No.93 4.00
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 between his house and 'Lie lane'. The third lane from his school is 'Karma lane'. 'Dharma lane' is immediately before the 'Yog lane'. He passes 'Salvation lane' at the end, 'Lie lane' is between 'Truth lane' and 'Dharma lane', the sixth lane from his house is 'Devotion lane'.
How many lanes are there between 'Lie lane' and 'Devotion lane'?
O two
○ five
O three
O four
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A minimum state deterministic finite automaton accepting
the language $L=\{w \mid w \in \{0,1\} *, number of 0s and 1s in w$
are divisible by 3 and 5, respectively) has
O 10 states
O 9 states
C 15 states C 11states
O Tistates
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Bookmark ☐ Which is more suitable normal form to be used with definite clause?
Bookmark ☐ Which is more suitable normal form to be used with definite clause? ○ Positive literal
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Which is more suitable normal form to be used with definite clause? ○ Positive literal ○ Neutral literal ○ Generalized modus ponens ○ Negative literal Question No.96 4.00
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Question No.97	4.00
A process executes the code fork(); fork(); fork(); The total number of child processes created is	Bookmark
o 7	
Question No.98	4.00
Encapsulation and abstraction are defined as:	Bookmark
Hiding and binding respectively	
Which of the following concurrency control protocols ensure both conflict serializability and from deadlock? I. 2-phase locking II. Time-stamp ordering Both I and II I only Neither I nor II I only	4.00 Bookmark □ I freedom
How many stacks are needed to implement a queue. Consider the situation where no othe structure like arrays, linked list is available to you.	4.00 Bookmark ☐ er data