Which	one of the following <b>is not</b> an I/O command?
○ a.	Status command
O b.	Output data command
O c.	Control command
d.	Issue command

Which one of the following form attribute is used to assign the server side script file that processes the form data?

a. Action
b. Autocomplete
c. Method
d. Target

#### Answer A

When to use the Spiral Model?
a. Where business modeling is clearly understood and in use.
b. When it is too risky to develop the overall system as one block.
c. When requirements are understood in the early stages but can change during the project's life cycle.
d. When requirements are unstable and constantly changing.

#### Answer D

In C++, what does the **cout** object typically represent?

a. Standard input stream

b. Keyboard input buffer

c. Error output stream

d. Standard output stream

) a.	Row-wise
b,	In a hierarchical structure
) c.	Column-wise
) d.	In a network model

a o b, **L** state transition in a Turing Machine means,

O a. read a, write b and move left

O b. delete a, read b and move left

C c. write a, read b and move left

O d. replace b by a and move left

#### Answer A

What is a characteristic feature of round-robin scheduling in both preemptive and non- preemptive forms?

a. It assigns priorities to tasks based on their relative importance.

b. It always selects the task with the shortest remaining time.

c. It favors short tasks over long tasks.

d. It guarantees fairness by providing each task with an equal time slice.

Index	es in database tables speed up the operations.	
() a	a. Read operations	
O b	Delete operations	
0 0	. Update operations	
O d	d. Write operations	
Answer	A	
What is	the term for a named block of code that performs a specific ta	isk?
○ a.	Condition	
	Variable	
	Function	
O d.		
Answer	С	
	ould be the asymptotic time complexity to add a node at the en to the head of the list?	d of singly linked list, if the pointer is initially
0	0(a)	
○ a.		
○ b. ○ c.		
○ d.		
O d.	O(1)	

Which decisio	learning technique in Al involves the use of labeled examples to train a model to make predictions or ns?
○ a.	Semi-supervised learning
O b.	Unsupervised learning
○ c.	Supervised learning
○ d.	Reinforcement learning
∖nswer	C
	otains its IP address from a <b>DHCP</b> server. If the PC is taken off the network for repair, what happens to the IP is configuration?

The elements must be in sorted order in case of,

a. Quick search
b. Selection search
c. Binary search
d. Linear search

O d. The configuration is permanent and nothing changes.

a. The address is returned to the pool for reuse when the lease expires.
 b. The address lease is automatically renewed until the PC is returned.

O c. The configuration is held by the server to be reissued when the PC is returned

) a.	Optimal case
) b.	Best case
) c.	Average case
O d.	Worst case

How ar	e the objects organized in the HTML DOM?
○ a.	Hierarchy
O b.	Queue
○ c.	Stack
O d.	Class-wise

# Answer A

Which one of the following is the output of syntax analysis phase?

o a. Syntax tree
b. Annotated parse tree
c. Abstract syntax tree
d. Pattern

What d	oes the if-else statement allow you to do in C++?	
○ b.	Declare and define functions Allocate memory dynamically Execute a block of code only if a condition is true, otherwise ex Repeat a block of code multiple times	ecute another block of code
Answer	С	
One of	f the following is <b>not true</b> about the Inheritance?	_
○ b.	The subclass can add variables, but cannot redefine them.  The derived class (subclass) is allowed to add methods or rede  A feature that allow us to drive class from another class.  Allows programmers to customize with actually modifying the	
Answer	A	
○ a. ○ b. ○ c.	one of the following is an efficient top-down parser?  Recursive-descent parser  Shift-reduce parser  Non-recursive predictive parser  LR parser	
o di	Consequent	

	ojective of modern operating systems involves providing a consistent and convenient environment for applications?
○ b. l	Maximizing hardware utilization  Ensuring fault tolerance  Providing security and protection  Providing a user-friendly interface
Answer D	
Which	one of the following <b>is not</b> the concern of availability?
○ a.	Fault tolerance
O b.	Alteration of resources
○ c.	Usefulness of resources
○ d.	Fair allocation of resources
Answer B	3
	ole strategy in which the root node is expanded first, then all the successors of the root node are expanded in their successors, and so on which is Expand the tree layer by layer, refers to,
○ a.	Greedy best-first search
	Depth-first search(DFS)
	Depth limited Search(DLS)
○ d.	Breadth-first search (BFS)

	ends a message to person B. while the message is transmitted; person C has gained an access to the Which category of an attack is performed by person C?
O a. M	odification
	terception
O c. In	terruption
O d. Fa	abrication
Answer B	
Which d	lata structure is used to store information about the source program constructs?
○ a.	2d-array
○ b.	[18] [18] [18] [18] [18] [18] [18] [18]
O c.	
	Queue
Answer C	
	n network topology consists of a single line cable- called a backbone connecting all nodes on a network intervening connected deviecs?
○ a.	Bus
O b.	Ring
O c.	
○ d.	Mesh

Which database design concept is commonly used in e-commerce platforms to efficiently store and retrieve customer order information?  a. Normalization b. Denormalization c. Partitioning d. Indexing  Answer A  Which one of the following terms refers to the techniques used for deciphering a cipher text without any knowledge of the enciphering mechanism involved?  a. Cryptography b. Cryptology c. Cryptonalysis d. Decryption  Answer C  All of the followings are scheduling criteria except?  a. CPU utilization b. Min Turnaround time c. Max Throughput d. Max Response time  Answer D  Given a binary search tree, which traversal type would print the values in the nodes in sorted order?  a. Pre-order b. Pre-order c. In-order			
<ul> <li>b. Denormalization</li> <li>c. Partitioning</li> <li>d. Indexing</li> </ul> Answer A Which one of the following terms refers to the techniques used for deciphering a cipher text without any knowledge of the enciphering mechanism involved? <ul> <li>a. Cryptography</li> <li>b. Cryptoglogy</li> <li>c. Cryptanalysis</li> <li>d. Decryption</li> </ul> Answer C All of the followings are scheduling criteria except? <ul> <li>a. CPU utilization</li> <li>b. Min Turnaround time</li> <li>c. Max Throughput</li> <li>d. Max Response time</li> </ul> Answer D Given a binary search tree, which traversal type would print the values in the nodes in sorted order? <ul> <li>a. Pre-order</li> <li>b. Pre-order and Post-order</li> <li>c. In-order</li> </ul>		[L] [L] [S] [J] [L] [J] [J] [J] [J] [J] [J] [J] [J] [J] [J	platforms to efficiently store and retrieve
C. Partitioning D. Indexing  Answer A  Which one of the following terms refers to the techniques used for deciphering a cipher text without any knowledge of the enciphering mechanism involved?  a. Cryptography b. Cryptology c. Cryptanalysis d. Decryption  Answer C  All of the followings are scheduling criteria except?  a. CPU utilization b. Min Turnaround time c. Max Throughput d. Max Response time  Answer D  Given a binary search tree, which traversal type would print the values in the nodes in sorted order?  a. Pre-order b. Pre-order and Post-order C. In-order	○ a.	Normalization	
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C. Cryptanalysis d. Decryption  Answer C  All of the followings are scheduling criteria except?  a. CPU utilization b. Min Turnaround time c. Max Throughput d. Max Response time  Answer D  Given a binary search tree, which traversal type would print the values in the nodes in sorted order?  a. Pre-order b. Pre-order and Post-order c. In-order	○ a.	Cryptography	
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O b. Min Turnaround time O c. Max Throughput O d. Max Response time  Answer D  Given a binary search tree, which traversal type would print the values in the nodes in sorted order?  O a. Pre-order O b. Pre-order and Post-order O c. In-order	All of t	he followings are scheduling criteria except?	
C. Max Throughput C. d. Max Response time  Answer D  Given a binary search tree, which traversal type would print the values in the nodes in sorted order?  Answer D  Response time	○ a.	CPU utilization	
O d. Max Response time  Answer D  Given a binary search tree, which traversal type would print the values in the nodes in sorted order?  O a. Pre-order O b. Pre-order and Post-order O c. In-order	O b.	Min Turnaround time	
O d. Max Response time  Answer D  Given a binary search tree, which traversal type would print the values in the nodes in sorted order?  O a. Pre-order O b. Pre-order and Post-order O c. In-order	O c.	Max Throughput	
Given a binary search tree, which traversal type would print the values in the nodes in sorted order?  O a. Pre-order  D b. Pre-order and Post-order  C c. In-order		T/5	
Given a binary search tree, which traversal type would print the values in the nodes in sorted order?  O a. Pre-order  D b. Pre-order and Post-order  C c. In-order			
<ul> <li>a. Pre-order</li> <li>b. Pre-order and Post-order</li> <li>c. In-order</li> </ul>	Answer	D	
<ul> <li>a. Pre-order</li> <li>b. Pre-order and Post-order</li> <li>c. In-order</li> </ul>	Given a	binary search tree, which traversal type would print the val-	ues in the nodes in sorted order?
b. Pre-order and Post-order     c. In-order			
O c. In-order	○ a.	Pre-order	
	O b.	Pre-order and Post-order	
	○ c.	In-order	
O d. Post-order	O d.	Post-order	

The use	r who programs a computer in machine or assembly language must be aware of the following <b>except</b>
○ a.	The register set
O b.	The type of data supported by the instructions
○ c.	The analysis model
○ d.	The memory structure
Answer	С
In comp	uter programming, what is the purpose of control structures such as loops and conditional statements?
○ a.	To control the flow of program execution
	To control the flow of program execution To perform mathematical
O b.	
○ b. ○ c.	To perform mathematical
○ b. ○ c.	To perform mathematical To define the data types used in a program To allocate memory for variables
O b. O c. O d.	To perform mathematical To define the data types used in a program To allocate memory for variables
o b. c. d.  Answer	To perform mathematical To define the data types used in a program To allocate memory for variables
O b. O c. O d.  Answer  Which O a.	To perform mathematical To define the data types used in a program To allocate memory for variables  A  of the following methods can be used to refresh a webpage?
O b. O c. O d.  Answer  Which O a. O b.	To perform mathematical To define the data types used in a program To allocate memory for variables  A  of the following methods can be used to refresh a webpage?  Location.relocate

	puter networking, refers to how various nodes, devices, and connections on your network are physically arranged in relation to each other
○ a.	Network layer
O b.	Network installation
○ c.	Network protocol
○ d.	Network topology
Λροινοι	

Which of the following **is not** a component of Turing Machine?

o a. Read-write head
b. Control Unit
c. Stack
d. Tape

## Answer C

A module is said to have logical cohesion, if

a. All the functions of the module are executed within the same time span.

b. All elements of the module depend on their interface complexity.

c. It performs a set of tasks that relate to each other very loosely.

d. All elements of the module perform similar operations.

When	encountering a syntax error in code, what is the first step you should take to resolve it?
() a.	Rewrite the entire
O b.	Ignore the error and continue execution
O c.	Use a debugger tool
○ d.	Check the code for typos or incorrect syntax
Answer	D
Which	n OOP concept allows objects of different classes to be treated as objects of a common superclass?
O a	. Polymorphism
O b	). Inheritance
0.0	. Abstraction
0 0	I. Encapsulation
Answer	A
In whic	th phase of the compilation process does the source program get broken in to its constituent parts?
O a.	Semantic analysis
	Syntax analysis
O b.	

	art of the computer system is responsible for converting machine processed data to different formats that erstandable by user?
○ a.	Communication components
O b.	Output unit
○ c.	Storage unit
○ d.	Input unit
Answer∃	В
	uence of operations- push(1), push(2), pop, push(1),push(2),pop, pop , pop, push(2),pop are performed on a the sequence of popped out values are
○ a.	2,1,2,2,1
O b.	2,2,1,1,2
O c.	2,1,2,2,2
○ d.	2,2,1,2,2
Answer <i>i</i>	A
Which f	unction of modern operating systems involves managing hardware resources such as CPU, memory, and I/O
Оа	File management
	Device management
	Process management
	Security management

	Register
) b.	Magnetic disc
) c.	Main memory
d.	Cache memory

What is the purpose of interfaces in Java?

- O a. To create multiple constructors for a class
- O b. To define the state and behavior of an object
- O c. To define a blueprint of a class
- O d. To achieve multiple inheritance

#### Answer D

Which software engineering principles are used to help reduce the programming complexity?

- O a. Structured and unstructured
- O b. Object oriented Design
- O c. Abstraction and Decomposition.
- O d. Functional and Non-functional

Which OC	OP concept allows a class to implement multiple interfaces in Java?
() a. P	olymorphism
○ b. E	ncapsulation
O c. I	heritance
O d. II	nterface
Answer	
In a gra	mmar, if the production $S \rightarrow \lambda$ where $S$ is a non-terminal is existed, such production is called?
( a.	Null Production
O b.	Unit Production
○ c.	Secondary Production
O d.	Sigma Production
Answer	3
	database design concept is commonly used in online gaming platforms to handle real-time interaction players?
	Replication
O a.	Contraction of the contraction o
	NoSQL databases
O b.	NoSQL databases Distributed databases

Which one of the following is the <b>correct syntax</b> for document type declaration in <b>HTML5?</b> O a.  O c. <doctype! html=""> O d. <!DOCTYPE html>  </doctype!>	
Answer D	
If an algorithm has a running time function of $3n^2 + 7n + 12$ . What will be the complexity class of  a. Linear  b. Polynomial  c. Constant  d. Exponential	the running time?
Answer B  Recursion is a method in which the solution of a problem depends on  a. Larger instances of the same problem b. Smaller instances of the same problem c. Larger instances of different problems d. Smaller instances of different problems	
Answer B	
Which SQL command is used to modify existing data in a table?  o a. ALTER b. UPDATE c. MODIFY d. CHANGE	

Which no	rmal form ensures that there are no repeating groups in a table?
O a S	econd Normal Form (2NF)
	hird Normal Form (2NF)
	oyce-Codd Normal Form (BCN
	irst Normal Form (1NF)
Answer D	
Which	n of the following is <b>not true</b> about Reasoning?
Wille	To the following is not true about heast-ling.
( a	. Knowledge system to do something.
O b	A process of thinking, logically arguing, and drawing inference.
0.0	. Theory of blind searching.
O d	The act of deriving a conclusion from certain premises using a given methodology.
Answer C	
What is t	the purpose of normalization in database design?
○ a.	To reduce redundancy and improve data integrity.
○ b.	To speed up query performance.
○ c.	To create complex relationships between tables.
○ d.	To encrypt sensitive data.

Which	one of the following is a <b>false</b> statement?	
○ b.	A web browser is software that runs on a server  A website is a collection of resources in various forms  A web page is the basic unit of information storage on the www  A user agent renders resources for a user to view	
Answer <i>i</i>	A	
○ a. ○ b. ○ c.	a string from the following is member of the language represented by the reg aab bc aaa aaabc	gular expression, a*(b+c)
Answer <i>i</i>	A	
If a prob	lem can be solved by combining optimal solutions to non-overlapping proble	ms, the strategy is called
○ b. ○ c.	Dynamic programming Divide and conquer Recursion Greedy	

) a.	Receiver's public key
) b.	Receiver's private key
) c,	Sender's private key
d.	Sender's public key

In C++, what does the **cout** object typically represent?

o a. Standard input stream
b. Keyboard input buffer
c. Error output stream
d. Standard output stream

#### Answer D

When can we say two grammars are equivalent?

a. When the language derived from one of the grammars become the subset of the other

b. When the alphabets of the two grammars are the same

c. When the languages represented by both grammars are the same

d. When a single string is member of the language represented by both grammars

Which	reasoning technique in artificial intelligence is based on a set of rules and logical inference to derive sions?
O a.	Abductive reasoning
O b.	Analogical reasoning
O c.	Deductive reasoning
○ d.	Inductive reasoning
Δηςινιστ	$oldsymbol{c}$



## Answer C

In computers, subtraction is carried out generally by\_\_\_\_. O a. 1's complement method O b. 2's complement method O c. signed magnitude method O d. BCD subtraction method

Answer B

Which o	one of the following <b>is not</b> a component of communication?
○ a.	Distance
O b.	Source
○ c.	Destination
O d.	Medium
Answer	· A
Which	one of the following <b>is not</b> a static check?
() a.	Type checking for compatibility
○ b.	Uniqueness checks like redefined variables
○ c.	A break instruction that is not in inclosing statement
○ d.	Memory access errors
Answer	· D
	is a system that monitors traffic into and out of a network and automatically alerts personnel when
suspicio	is a system that monitors traffic into and out of a network and automatically alerts personnel when
suspicio	is a system that monitors traffic into and out of a network and automatically alerts personnel when ous traffic patterns occur, indicating a possible unauthorized intrusion attempt.  Anti-Virus Software
suspicio	is a system that monitors traffic into and out of a network and automatically alerts personnel when ous traffic patterns occur, indicating a possible unauthorized intrusion attempt.  Anti-Virus Software

Which	one of the following terms refers to the machine on which the requested resource is stored?
() a.	Port
O b.	Query
○ c.	Host
○ d.	Protocol
Answer (	<u> </u>

Which scheduling algorithm is commonly associated with the concept of aging, where the priority of a task increases the longer it waits in the ready queue?

- O a. Round Robin (RR)
- O b. Shortest Job Next (SJN)
- O c. Priority Scheduling
- d. Shortest Remaining Time First (SRTF)

#### Answer C

Why heuristic (A\*) search method?

- a. To speed up search and edge lengths to compute optimal paths.
- O b. To find the path with the maximum distance from the start node to the goal node.
- O c. To find the path with the Non-optimal searches from node to the goal node.
- O d. To find the path with the maximum cost from the start node to the goal node.

When is	s the appropriate time to shut down a system?	
○ a.	Using regular schedules	
O b.	For maintenance and upgrade	
○ c.	To check for security alerts	
O d.	When there is a failure	
Answer	D	
Answei	D	
Out of	the following life cycle models which one can be considered a	s the most general model, and the others as
speciali	zation of it?	
○ a.	Spiral Model	
O b.	Prototyping Model	
○ c.	Classical Waterfall Model	
O d.	Iterative Waterfall Model	
A 10 0 14 0 15	Λ	

Which one of the following cryptography systems uses the same key for encryption and decryption?

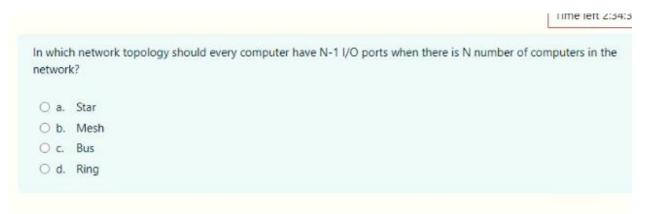
O a. Public key cryptography

D b. Parallel cryptography

C c. Asymmetric cryptography

O d. Symmetric cryptography

he E-R	data model is based on a perception of the real world that consists of a set of basic objects called
	· · · · · · · · · · · · · · · · · · ·
O a. (	Objects
O b. (	Classes
O c. E	Entities
O d. /	Attributes



### Answer B

What is the primary key in a relational database?

a. A unique identifier for each row in a table.
b. A foreign key from another table.
c. A key used for encryption.
d. An index on a non-unique column.

Which C	++ statement is used to terminate a loop prematurely and transfer control to the next i	teration of the loop?
<ul><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul>	exit;	
Answer	D	
Which	one of the following disk interfaces is used as a standard interface for PCs?	
○ a.	SCSI	
O b.	iSCSI	
○ c.	IDE	
○ d.	USB	
Answer	С	
In a sys	tem susceptible to deadlock, what does the "no preemption" condition imply?	
○ a.	Resources can be preempted and assigned to other processes.	
	Processes cannot request additional resources while holding others.	
○ c.	Resources cannot be preempted while they are in use.	
○ d.	Processes must release all resources when blocked.	

Whi	ch of the following is <b>false</b> in Data structures and Algorithm	ns?
0	a. A tree contains a cycle.	
0	b. Tree is a non-linear data structure.	
0	c. A tree is a connected graph	
0	d. A tree with n modes contains (n-1) edge	
Answe	r A	
What	is the role of a database administrator (DBA)?	
0.	Designing user interfaces for database applications.	
	Developing front-end application	
	c. Writing complex SQL queries.	
	d. Managing and maintaining databases.	
	. Wallaging and maintaining databases.	
Answe	r D	
		<del>-</del>
	attribute of <img/> tag is used when we want to display a to age is not displayed?	ext in place of an image when, due to any reaso
O a.	rep	
O b.	. pla	
	alt	
○ c.	dit	

	ue is implemented using arrays, what would b tions?	e the worst run time complexity of queue and dequeue
Оа	. O(n), O(1)	
	. O(1), O(n)	
	. O(1), O(1)	
	. O(n), O(n)	
Answer	A	_
Which	of the following concepts in <b>OOP</b> allows a class	s to inherit attributes and methods from another class?
() a.	Inheritance	
O b.	Abstraction	
○ c.	Encapsulation	
○ d.	Polymorphism	
Answer	Δ	102
Allower	^	
Which o	f the following is the top level object?	
○ a.	Root object	
O b.	Document Object	
○ c,	JavaScript Object	
○ d.	Window Object	

		11110 1011 2.33.3
Which	tool is used to collect codes separately compiled or assembled in different object files into table?	a file that is directly
○ a.	Linker	
O b.	Loader	
O c.	Assembler	
○ d.	. Resolver	
Answe	er A	
		Ті
Amon	ng the following which kind of algorithm is used in the Game tree to make decisions of Wir	n/Lose?
() a.	a. Heuristic Search Algorithm	
() b	b. Min/Max Algorithm	
O c.	c. Depth First Search algorithm	
○ d	d. Greedy Search Algorithm	
Answe	er B	
Which	ch one of the following <b>is not</b> a reason for the need of backups?	
() a	a. Security incidents	
O b	b. Upgrades and migrations	

c. Hardware failures
 d. Authorization

Which	one of the following <b>is not</b> a characteristic of an algorithm?	
○ b.	Definiteness Output Finiteness Efficiency	
Answer	r D	
Which o	command in Microsoft Windows will allow you to verify your IP address, subnet mask, default gatev ddress?	ay, and
() a.	C:\>ipconfig /all	
	C:\>ping	
○ c.	C:\>ipconfig	
○ d.	C:\>ipstatus	
Answer	r A	

One of the following is not Characteristics of Java?

O a. Java is Object-Oriented

b. Java is Platform Independentc. Java is difficult to Learnd. Java is architecture neutral.

	communication, data rate refers how fast we can send data and is measured in bits per second. Which one of
the follo	owing is not a factor for data rate?
○ a.	Travel distance
O b.	Bandwidth available
○ c.	Level of noise
O d.	Levels of the signals
Answer	A
Which la	yer of the <b>OSI model</b> ensures that the whole message (group of packets) arrives to the destination intact rder?
○ a.	Session layer
O b.	Transport layer
○ c.	Data link layer
○ d.	Network layer
Answer	В
Which	System Requirement Specification includes human computer interface issues from the system?
○ a.	Functional requirements of the system
○ b.	Non-functional requirements of the system
○ c.	Goals of implementation
○ d.	System Testing

In a classical waterfall model, which phase	e precedes the design phase?	
<ul> <li>a. Requirements analysis and speci</li> <li>b. Maintenance</li> <li>c. Feasibility study</li> <li>d. Coding and unit testing</li> </ul>	fication	
Answer A		
Which bus is bidirectional?  a. Control bus b. Data bus c. Uni-bus d. Address bus		
Answer B		
Which one of the following is not an I	/O command?	
Answer D		
Which one of the following form attribute  a. Action b. Autocomplete c. Method d. Target	is used to assign the server side	e script file that processes the form data?

In MyS	QL architecture, the function of the is to keep copies of data for retrieval later, in case of a loss of data.
	Buffer Manager
○ b.	Transaction Manager
○ c.	Query Engine
O d.	Recovery Manager
Answer	D
What rol	e does machine learning play in understanding human perception?
○ a.	Machine learning helps in simulating human perception through neural networks.
○ b.	Machine learning has no relevance to understanding human perception.
○ c.	Machine learning is not capable of analyzing perceptual data.
O d.	Machine learning only focuses on logical reasoning and decision-making.
Answer	Ą
When t	o use the Spiral Model?
( a.	Where business modeling is clearly understood and in use.
O b.	When it is too risky to develop the overall system as one block.
○ c.	When requirements are understood in the early stages but can change during the project's life cycle.
O d.	When requirements are unstable and constantly changing.

Answer B

The first step in access control is
O a. Audit
O b. Authorization
C. Accreditation
d. Authentication
G. Authentication
Answer D
The amount of memory needs to run to completion is known as
a. Space complexity
O b. Time complexity
O c. Worst case
O d. Best case
U. best case
Answer A
, allewer / t
Which class of languages is most suited to be represented by pushdown automata?
a. Context free language
O b. Regular language
c. Recursively enumerable language
O d. Unrestricted language
(1) No. 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

Which	of the following <b>is not</b> a type of database model?
○ a.	Linear
O b.	Object-Oriented
○ c.	Hierarchical
O d.	Relational