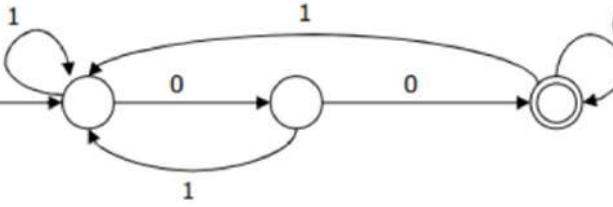


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Questions	Choices
	<ol style="list-style-type: none">1. begin either with 0 or 12. end with 03. end with 004. contain the substring 00

Questions	Choices
	1. 15
	2. 7
With the Euclidean algorithm we finally have an efficient algorithm for finding the multiplicative inverse in \mathbb{Z}_m that is much better than exhaustive search. The inverses in \mathbb{Z}_m of the following elements 7 modulo 26 is	3. 26
	4. 1
	1. 26
Determine the value for the Euler's Totient $\varphi(26)$	2. 1
	3. 8
	4. 12

Questions	Choices
	1. (41,17,209)
Let the two primes $p = 41$ and $q = 17$ be given as set-up parameters for RSA. And $e=49$ be the public exponent. Determine the corresponding private key $K_{pr} = (p,q,d)$.	2. (41,17,697) 3. (41,17,49) 4. (41,17,640)
	1. 1411
Suppose you are asked to attack an RSA encrypted message. Imagine being the attacker: You obtain the ciphertext $y=1141$ by eavesdropping on a certain connection. The public key is $k_{pub} = (n,e) = (2623,2111)$. Determine the plaintext x by computing the private key d through factoring $n = p \cdot q$.	2. 1088 3. 1112 4. 3262

Questions	Choices
	1.
	3
	2.
	9
Let E be an elliptic curve defined over \mathbb{Z}_7 . Given the element $\alpha = (0, 3)$, determine the order of α .	3.
Actual answer = 6	0
	4.
	7
	1.
	$0 < C \leq C^*$
We know that optimization problems are of two types namely maximization and minimization. If C^* is the cost of the optimal solution and C is the cost of the solution obtained by approximation algorithm, then which of the following is true for maximization problem?	2.
	$0 < C^* \leq C$
	3.
	$C^* < 0 \leq C$
	4.
	$C < 0 \leq C^*$

Questions	Choices
	1. $(x_1 \vee x_2 \vee x_3 \vee x_4) \wedge (\overline{x_1} \vee \overline{x_3}) \wedge (x_1 \vee \overline{x_2})$
Identify which of the following is 3CNF sat?	2. $(x_1 \vee x_2 \vee x_5) \wedge (\overline{x_1} \vee \overline{x_3} \vee x_4) \wedge (x_1 \vee \overline{x_2} \vee \overline{x_4})$
	3. $(\overline{x_1} \vee \overline{x_3} \vee x_4) \wedge (x_1 \vee \overline{x_2} \vee \overline{x_4})$
	4. $(x_1 \vee x_2 \vee x_3) \wedge (\overline{x_1} \vee \overline{x_3}) \wedge (x_1 \vee \overline{x_2})$ $(x_1 \vee x_2 \vee x_3) \wedge (\overline{x_1} \vee \overline{x_3}) \wedge (x_1 \vee \overline{x_2})$
Identify which of the following propositional formula is in DNF?	1. $(x_1 \vee x_2 \wedge x_3) \vee (\overline{x_1} \vee \overline{x_3}) \vee (x_1 \wedge \overline{x_2})$
	2. $(x_1 \wedge x_2 \wedge x_3) \vee (\overline{x_1} \wedge \overline{x_3}) \vee (x_1 \wedge \overline{x_2})$
	3. $(x_1 \vee x_2 \vee x_3) \wedge (\overline{x_1} \vee \overline{x_3}) \wedge (x_1 \vee \overline{x_2})$
	4. $(x_1 \wedge x_2 \wedge x_3) \wedge (\overline{x_1} \wedge \overline{x_3}) \wedge (x_1 \wedge \overline{x_2})$

Questions	Choices
<p>Identify to which CNF-Sat does the following belong to.</p> $(x_1 \vee x_2) \wedge (\overline{x_1} \vee \overline{x_3}) \wedge (x_1 \vee \overline{x_2}) \wedge (x_3 \vee \overline{x_1})$	<p>1. 3 CNF-Sat</p> <p>2. 4 CNF-Sat</p> <p>3. 5 CNF-Sat</p> <p>4. 2 CNF-Sat</p>

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Questions	Choices
If $X \rightarrow Y$ and $YZ \rightarrow W$ then $XZ \rightarrow W$ is	<ol style="list-style-type: none">1. Composition Rule2. Reflexivity Rule3. Union Rule4. Pseudo transitive Rule

Questions	Choices
What is the difference between supervised and unsupervised learning?	<ol style="list-style-type: none"><li data-bbox="1185 187 1702 330">1. Supervised learning requires labeled data while unsupervised learning does not.<li data-bbox="1185 361 1702 472">2. Unsupervised learning requires labeled data while supervised learning does not.<li data-bbox="1185 568 1702 679">3. Supervised learning does not require data while unsupervised learning does.<li data-bbox="1185 710 1702 822">4. There is no difference between supervised and unsupervised learning.
Which of the following is an example of a dimensionality reduction technique?	<ol style="list-style-type: none"><li data-bbox="1185 933 1657 1012">1. Principal component analysis (PCA)<li data-bbox="1185 1044 1612 1123">2. Support vector machine (SVM)<li data-bbox="1185 1202 1567 1282">3. K-nearest neighbors (KNN)<li data-bbox="1185 1314 1343 1361">4. AdaBoost

Questions	Choices
	1. Decision tree
Which of the following is an example of a clustering algorithm?	2. Random forest
	3. K-means
	4. Gradient descent
You are predicting whether an email is spam or not. Based on the features, you obtained an estimated probability to be 0.75. What's the meaning of this estimated probability?	1. B and D
A) there is 25% chance that the email will be spam	2. A and B
B) there is 75% chance that the email will be spam	3. C and D
C) there is 75% chance that the email will not be spam	4. A and D
D) there is 25% chance that the email will not be spam	

Questions	Choices
What are the advantages of Classification and Regression Trees (CART)?	<ol style="list-style-type: none"><li data-bbox="1176 187 1693 330">1. Decision trees require relatively less effort from users for data preparation<li data-bbox="1176 430 1693 572">2. Nonlinear relationships between parameters do not affect tree performance.<li data-bbox="1176 595 1693 810">3. Both decision trees require relatively less effort from users for data preparation and nonlinear relationships between parameters do not affect tree performance.<li data-bbox="1176 833 1693 901">4. None of these

Questions	Choices
What are the advantages of Classification and Regression Trees (CART)?	<ol style="list-style-type: none"><li data-bbox="1176 187 1671 323">1. Decision trees implicitly perform variable screening or feature selection<li data-bbox="1176 355 1671 460">2. Can handle both numerical and categorical data<li data-bbox="1176 561 1671 666">3. Can handle multi-output problems.<li data-bbox="1176 688 1671 768">4. All of these

Questions	Choices
<p>What are the disadvantages of Classification and Regression Trees (CART)?</p>	<ol style="list-style-type: none"><li data-bbox="1176 187 1693 361">1. Decision trees can be unstable because small variations in the data might result in a completely different tree being generated<li data-bbox="1176 466 1693 609">2. Decision trees require relatively less effort from users for data preparation<li data-bbox="1176 704 1693 847">3. Nonlinear relationships between parameters do not affect tree performance.<li data-bbox="1176 942 1693 1085">4. Decision trees implicitly perform variable screening or feature selection

Questions	Choices
<p>Decision tree learners may create biased trees if some classes dominate. What's the solution of it?</p>	<ol style="list-style-type: none"><li data-bbox="1176 187 1693 260">1. balance the dataset prior to fitting<li data-bbox="1176 361 1648 472">2. imbalance the dataset prior to fitting<li data-bbox="1176 574 1648 647">3. balance the dataset after fitting<li data-bbox="1176 749 1491 822">4. No solution possible

Questions	Choices
What is the maximum depth in a decision tree?	<p>1. the length of the longest path from a root to a leaf</p> <p>2. the length of the shortest path from a root to a leaf</p> <p>3. the length of the longest path from a root to a sub-node</p> <p>4. None of these</p>

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Questions	Choices
Decision tree can be used for _____.	<ol style="list-style-type: none">1. classification2. regression3. Both classification and regression4. None of these

Questions	Choices
Decision tree is a _____ algorithm.	<ol style="list-style-type: none">1. supervised learning2. unsupervised learning3. Both supervised learning and unsupervised learning4. None of these
In which of the following cases will K-means clustering fail to give good results? 1) Data points with outliers 2) Data points with different densities 3) Data points with nonconvex shapes	<ol style="list-style-type: none">1. 1 and 22. 2 and 33. 1 and 34. All of these

Questions	Choices
<p>Suppose, your target variable is the price of a house using Decision Tree. What type of tree do you need to predict the target variable?</p>	<ol style="list-style-type: none"><li data-bbox="1170 182 1410 255">1. classification tree<li data-bbox="1170 282 1372 355">2. regression tree<li data-bbox="1170 377 1372 450">3. clustering tree<li data-bbox="1170 477 1567 550">4. dimensionality reduction tree
<p>Suppose, your target variable is whether a passenger will survived or not using Decision Tree. What type of tree do you need to predict the target variable?</p>	<ol style="list-style-type: none"><li data-bbox="1170 668 1410 741">1. classification tree<li data-bbox="1170 847 1372 920">2. regression tree<li data-bbox="1170 942 1372 1015">3. clustering tree<li data-bbox="1170 1122 1567 1195">4. dimensionality reduction tree

Questions	Choices
In SVM, if the number of input features is 3, then the hyperplane is a ____.	<ol style="list-style-type: none">1. line2. circle3. plane4. None of these
In SVM, the dimension of the hyperplane depends upon which one?	<ol style="list-style-type: none">1. the number of features2. the number of samples3. the number of target variables4. All of these

Questions	Choices
In SVM, we are looking to maximize the margin between the data points and the hyperplane. The loss function that helps maximize the margin is called _____.	<ol style="list-style-type: none">1. hinge loss2. categorical cross-entropy loss3. binary cross-entropy loss4. None of these
In SVM, what is a hyperplane?	<ol style="list-style-type: none">1. decision boundaries2. data points3. features4. None of these

Questions	Choices
What's the objective of the support vector machine algorithm?	<p>1. to find an optimal hyperplane in an N-dimensional space that distinctly classifies the data points where N is the number of features.</p> <p>2. to find an optimal hyperplane in an N-dimensional space that distinctly classifies the data points where N is the number of samples.</p> <p>3. to find an optimal hyperplane in an N-dimensional space that distinctly classifies the data points where N is the number of target variables.</p> <p>4. None of these</p>

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Questions	Choices
In which Strategy of data reduction redundant attributes are detected.	<ol style="list-style-type: none">1. Date cube aggregation2. Numerosity reduction3. Data compression4. Dimension reduction

Questions	Choices
Fraud Detection, Image Classification, Diagnostic, and Customer Retention are applications in which of the following	<ol style="list-style-type: none"><li data-bbox="1176 187 1639 260">1. Unsupervised Learning: Regression<li data-bbox="1176 350 1639 423">2. Supervised Learning: Classification<li data-bbox="1176 445 1639 518">3. Unsupervised Learning: Clustering<li data-bbox="1176 609 1639 682">4. Reinforcement Learning

Questions	Choices
Suppose you are using RBF kernel in SVM with high Gamma value. What does this signify?	<ol style="list-style-type: none">1. The model would consider even far away points from hyperplane for modelling.2. The model would consider only the points close to the hyperplane for modelling.3. The model would not be affected by distance of points from hyperplane for modelling.4. None of the above

Questions	Choices
	1. Oval
	2. Round
What is shape of dendrites like?	3. Tree
	4. Rectangular
	1. Classification
	2. Regression
Which of the following is not a type of supervised learning?	3. Clustering
	4.None of the above

Questions	Choices
Which of the following is true about regularized linear regression model?	<ol style="list-style-type: none"><li data-bbox="1167 182 1715 357">1. Increase in regularization parameter (lambda) will make the model to underfit the data and the validation error will go up.<li data-bbox="1167 388 1715 626">2. Decrease in regularization parameter (lambda) will make the model to overfit the data and the training error go up<li data-bbox="1167 722 1715 960">3. Increase in regularization parameter (lambda) will make the model to underfit the data and the training error go down<li data-bbox="1167 1055 1715 1134">4. All of these are true

Questions	Choices
Logistic Regression is a Machine Learning algorithm that is used to predict the probability of a ___?	<ol style="list-style-type: none">1. categorical independent variable2. categorical dependent variable3. numerical dependent variable4. numerical independent variable

Questions	Choices
	1.
	Flash
	2.
11) HTML5 features, include native audio and video support without the need for.	Canvas
	3.
	SVG
	4.
	Applet

Questions	Choices
What does the status code – 404 indicate	<p>1. The server cannot find the requested resource.</p> <p>2. The client cannot find the requested resource</p> <p>3. The server-client connection was not established</p> <p>4. If it is an unauthenticated request</p>
Cross-Site Scripting (XSS) is a	<p>1. Cross domain scripting language</p> <p>2. Client side scripting language</p> <p>3. A type of web application vulnerability</p> <p>4. Cross platform scripting language</p>

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Questions	Choices
	1.
	onafterprint
The _____ attribute fires when a page has started printing.	2. onprint
	3. printafter
	4. onbeforeprint

Questions	Choices
What does the attribute named multiple in the input type email represents	<ol style="list-style-type: none"><li data-bbox="1163 187 1484 255">1. Allowing multiple email ID<li data-bbox="1163 287 1522 355">2. Restricting multiple email ID<li data-bbox="1163 387 1551 455">3. Providing auto complete option<li data-bbox="1163 487 1574 539">4. Giving multiple access permission
Which request method is used to modify or replace the current data with the requested data? For example, changing the password on a website.	<ol style="list-style-type: none"><li data-bbox="1163 599 1260 668">1. TRACE<li data-bbox="1163 699 1260 768">2. DELETE<li data-bbox="1163 799 1215 868">3. GET<li data-bbox="1163 899 1215 952">4. PUT
With TCP the default port, for an HTTP server on a computer is _____	<ol style="list-style-type: none"><li data-bbox="1163 1009 1260 1077">1. port 50<li data-bbox="1163 1109 1260 1177">2. port 80<li data-bbox="1163 1209 1260 1277">3. port 40<li data-bbox="1163 1309 1394 1361">4. port 100

Questions	Choices
	1.
	header
	2.
	footer
11 Which element works as a sidebar?	3.
	nav
	4.
	aside

Questions	Choices
	1.
	<details>
	2.
	<summary>
11 The additional details that the user can view or hide on demand is specified by	3.
	<main>
	4.
	<aside>

Questions	Choices
	1.
	formnovalidate
	2.
11 _____ attribute indicate that the form shouldn't be validated when submitted.	skipvalidate
	3.
	removevalidate
	4.
	nevervalidate

Questions	Choices
	1.
	autofocus
	2.
	firstfocus
11 Adding _____ attribute to an input automatically focuses that field when the page is rendered.	3.
	getfocus
	4.
	myfocus

Questions	Choices
<p>_____ is the replacement for cookies in HTML5.</p>	<p>1. Java scripts</p> <p>2. Web beacons</p> <p>3. Local Storage</p> <p>4. sessions</p>

Questions	Choices
	1.
	<select>
Which among the following tags define a caption for a <fieldset> element?	2.
	<label>
	3.
	<legend>
	4.
	<textarea>

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Questions	Choices
	1.
	playon
	2.
_____ event was triggered when the media start playing	onplay
	3.
	startmedia
	4.
	onmedia

Questions	Choices
<p>_____ is a weakness that can be exploited by attackers.</p>	<ul style="list-style-type: none"><li data-bbox="1603 180 1882 292">1. System with malware protection<li data-bbox="1603 307 1882 418">2. System with firewall<li data-bbox="1603 434 1882 545">3. System with vulnerabilities<li data-bbox="1603 561 1882 672">4. System with a strong password

Questions	Choices
	1. Text or embedded content
	2.
An article element contains	Image
	3.
	Audio
	4.
	Gif

Questions	Choices
Which of the following is not a web server?	1. Apache tomcat 2. BlueGriffon 3. Jetty 4. Tornado
Which of the following is used to read a HTML page and render it?	1. Web browser 2. Web server 3. Web matrix 4. Web network

Questions	Choices
	1. <source>
	2. <video>
_____ is not a HTML5 tag.	3. <slider>
	4. <section>
_____ is a horizontal bar chart showing work completed in a certain period of time with respect to the time allocated for that particular task.	1. Box plot 2. Histogram 3. Gantt Chart 4. 3D plot

Questions	Choices
_____ among these is an example of categorical data?	1. Gender 2. Today's stock market exchange index 3. Your weight 4. Your aadhaar number
A diverging colormap has _____ hue value(s) at the end point.	1. 1 2. 2 3. 4 4. 8

Questions	Choices
Categorical colormaps are also known as _____ colormap.	1. Quantitative 2. Qualitative 3. Reflexive 4. Reflective

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Questions	Choices
Circle segments are helpful for viewing _____ data.	<ul style="list-style-type: none">1. One dimensional2. Two dimensional3. Multi dimensional4. Mixed mode

Questions	Choices
Closure occurs when an object is _____.	1. Complete 2. Incomplete 3. Distorted 4. Distributed
Color is best understood in terms of luminance, _____, and saturation.	1. Brightness 2. Hue 3. Histogram 4. Intensity
Designer may use the law of _____ to create a shape of an island and its reflection on the sea.	1. Proximity 2. Similarity 3. Continuity 4. Transitivity

Questions	Choices
<p>Finding all the possible paths from one node to another is an example of _____ task.</p>	<ul style="list-style-type: none">1. Topological2. Sequential3. Interpolation4. Informal
<p>For visualization design, the technique driven approach is _____.</p>	<ul style="list-style-type: none">1. Bottom-up2. Top-down3. Linear4. Cascading

Questions	Choices
	1. 2-4
	2. 4-6
For a choropleth map, a choice of _____ bins is good.	3. 6-8
	4. 5-7
	1. Categorical
Gender', 'eye color' are examples of _____ data.	2. Ordinal
	3. Quantitative
	4. Qualitative

Questions	Choices
Greenland appears to be bigger than Africa in which type of projection?	<ul style="list-style-type: none">1. Conformal2. Area preserving3. Shadow4. Gray
In node-link diagram, which type of nodes are perceived as tightly grouped?	<ul style="list-style-type: none">1. Node with direct single link2. Node with multiple links3. Isolated nodes4. Clustered nodes

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Questions	Choices
In HSL system, the _____ axis is the amount of white mixed with that pure color.	<ul style="list-style-type: none">1. Hue2. Saturation3. Colour4. Light

Questions	Choices
KDD process is useless if the results are not _____.	<ul style="list-style-type: none">1. Understandable2. Colourful3. Plottable4. Reproducible
Luminance and saturation are _____ channels.	<ul style="list-style-type: none">1. Amplitude2. Magnitude3. Cardinality4. Identity

Questions	Choices
The goal of task abstraction is to transform user task from a domain specific language into a ___ level concise representation.	<ul style="list-style-type: none">1. High2. Low3. Mid4. Min
The length characteristic of which among these visual variable is theoretically infinite?	<ul style="list-style-type: none">1. Texture2. Shape3. Color4. Size

Questions	Choices
	1. Group value
	2. Cardinality
The number of unique values for an attribute is known as _____.	3. Entropy
	4. Information gain
	1. Group value
	2. Entropy
The number of unique values for an attribute is known as _____.	3. Cardinality
	4. Information gain

Questions	Choices
	1. Not
The red, blue, and green axes of the RGB color space are _____ useful as separable channels.	2. Highly 3. Occasionally 4. Always
	1. 1.5
What will be the output for the following: <code>x <- c(1,2,NA,3)</code> <code>mean(x)</code>	2. NA 3. Undefined 4. Error
	1.Abnormality 2. Anomaly
When similarity occurs, an object can be emphasized if it is dissimilar to the others. This is called _____.	3. Synonyms 4. Wrong view

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Questions	Choices
Which among these is a better example of clustering?	<ul style="list-style-type: none">1. Dendogram2. Decision tree3. Circle segment4. Decision tables

Questions	Choices
<p>Which among these is example of sequential type attribute?</p>	<ul style="list-style-type: none">1. Temperature2. Altitude3. Month4. Age
<p>Which among these is example of sequential type attribute?</p>	<ul style="list-style-type: none">1. Temperature2. Altitude3. Age4. Month

Questions	Choices
Which among these is not among the main Gestalt laws?	<ol style="list-style-type: none"><li data-bbox="1612 187 1776 303">1. Law of proximity<li data-bbox="1612 345 1776 461">2. Law of similarity<li data-bbox="1612 504 1776 620">3. Law of transitivity<li data-bbox="1612 663 1776 779">4. Law of continuity
As it is belong to data visualization course R language is used in R %% is used to get remainders	<ol style="list-style-type: none"><li data-bbox="1612 830 1776 906">1. A%%B<li data-bbox="1612 933 1776 1009">2. A%B<li data-bbox="1612 1036 1776 1096">3. A~B<li data-bbox="1612 1123 1776 1199">4. A/B
Which among these will return the modulus division between A and B?	

Questions	Choices
Which forecasting method is used when situation is stable and historical data exist?	<ul style="list-style-type: none">1. Quantitative2. Qualitative3. Distributive4. Descriptive
Which forecasting method is used when situation is vague and little data exist?	<ul style="list-style-type: none">1. Quantitative2. Qualitative3. Descriptive4. Distributive

Questions	Choices
<p>Which marks are effective in showing complete information on hierarchical data?</p>	<ul style="list-style-type: none">1. Cliques2. Containments3. Multiple colors4. Multiple shapes
<p>Which of these commands will run a simple linear regression of miles per gallon on car weight using the dataframe mtcars. Results are sent to the screen. Nothing is saved.</p>	<ul style="list-style-type: none">1. <code>lm(mpg~wt, data=mtcars)</code>2. <code>lm(mpg~wt, mtcars)</code>3. <code>lm(mpg~wt, df)</code>4. <code>ls(mpg~wt, df)</code>

Questions	Choices
While representing time series data, it is advisable not to use more than ___ variables on a line graph.	1. Two 2. Three 3. Four 4. Six

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Questions	Choices
While representing time series data, it is advisable not to use more than ____ variables on a line graph.	1. 2 2. 3 3. 4 4. 6

Questions	Choices
	1. Low Rate Usage
	2. Least Rate Usage
LRU stands for	3. Least Recently Used
	4. Low Required Usage
	1. Pruning
The technique that removes unimportant nodes of a decision tree is called __	2. Clustering
	3. Classifying
	4. Optimizing

Questions	Choices
<p>Statement 1: Private Cloud may exist only on-premises.</p> <p>Statement 2: Private Cloud can be managed by a third party</p>	<ul style="list-style-type: none">1. Statement 1 is true2. Both the statements are true3. Statement 2 is true4. Both the statements are false
<p>_____ removes the affixes of a word and returns the base form.</p>	<ul style="list-style-type: none">1. Wording2. Affixing3. Infixing4. Stemming

Questions	Choices
Giving numerical representation for various target classes of dependent variables is called ___. Part-of-Speech Tagging is a ___ problem.	<ul style="list-style-type: none">1. Cross-Entropy2. One-Hot Encoding3. Multinomial Regression4. Parameter Optimization <ul style="list-style-type: none">1. Classification2. Clustering3. Sequence Labelling4. Prediction

Questions	Choices
	1. Syntax Analysis
When the sentences in a text are reinterpreted based on the given context using real world knowledge, it is called ____	2. Semantic Analysis
	3. Pragmatic Analysis
	4. Vector Analysis
	1. True
Data cleaning and data quality is the important property for most of the algorithm proper working. State True or False.	2. False
	3. both option a,b
	4. Null

Questions	Choices
	1. True Positive Rate and False Positive Rate
ROC – Receiver Operator Characteristic is plotted between ____	2. True Negative Rate and False Negative Rate
	3. True Positive Rate and False Negative Rate
	4. True Negative Rate and False Positive Rate

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Questions	Choices
<p>Text Data is converted into a collection of tokens by __ after which Part of Speech Tagging is performed.</p>	<ol style="list-style-type: none">1. Tokenization2. Stemming3. Verbs4. Nouns

Questions	Choices
Which of the following is also called as the Sensitivity of a Model?	1. Precision 2. Recall 3. F1 Score 4. Specificity
Which of the following Natural Toolkit allows text preprocessing on Indian Languages?	1. NLTK 2. INDIC 3. Spacy 4. TextBlob

Questions	Choices
Which tool is best suited for mathematical operations in Data Analysis?	1. LibreOffice 2. SQL 3. MS Word 4. Octave
The case when the actual and predicted values are same is ____	1. True Negative 2. False Positive 3. Neutral Negative 4. False Negative

Questions	Choices
_____ do not encrypt an entire block per iteration.	<ol style="list-style-type: none">1. Feistel networks2. Rijndael networks3. Feister networks4. Both (a) and (b)
Ensuring isolation property is the responsibility of the	<ol style="list-style-type: none">1. Recovery-management component of the DBMS2. Concurrency-control component of the DBMS3. Transaction-management component of the DBMS4. Buffer management component in DBMS

Questions	Choices
_____ are the machine learning algorithms that can be used with unlabelled data.	1. Regression algorithms 2. Clustering algorithms 3. Instance Based algorithms 4. Classification algorithms
_____ are applied throughout the software process.	1. Framework activities 2. Umbrella activities 3. Planning activities 4. Construction activities

Questions	Choices
A threat action that interrupts delivery of system services by hindering system operation is known as _____.	1. Masquerade 2. Falsification 3. Repudiation 4. Obstruction

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Comprehensive Question Preview

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Questions	Choices
<p>An interface that provides I/O transfer of data directly to and from the memory unit and peripheral is termed a</p>	<p>1. DDA 2. Serial interface 3. BR 4. DMA</p>

Questions	Choices
BFS on a rooted tree is equivalent to	<ol style="list-style-type: none">1. inorder traversal2. level order traversal3. postorder traversal4. preorder traversal
During a write operation if the required block is not present in the cache then _____ occurs.	<ol style="list-style-type: none">1. Write Miss2. Write latency3. Write hit4. Write delay

Questions	Choices
	1. No auxiliary memory
Finite automata ----- memory	2. Finite 3. Infinite 4.
	none
Identify the correct statement(s) is/are with respect to EDA	1. ii) and iii) 2. i) and ii) 3. i) and iii) 4. ii) and iv)
i) focuses on more narrowly on checking assumptions required for model fitting	
ii) Used in hypothesis testing	
iii) Non-robust understanding of the data	
iv) Non-scientific approach to get the story of the data	

Questions	Choices
<p>Identify the incorrect statement(s) is/are with respect to Function names</p> <ul style="list-style-type: none">i) Function names have no initial capital lettersii) Function names have no dotsiii) Function names have initial small lettersiv) Function names have no underscores	<ul style="list-style-type: none">1. ii), iii), iv)2. i), ii)3. ii), iii)4. iii), iv)
<p>Identify the incorrect statement(s) is/are with respect to real-world data</p> <ul style="list-style-type: none">i) Real world data is cleanii) Real world data is incompleteiii) Having missing attribute valuesiv) containing no errors or outliers	<ul style="list-style-type: none">1. i) and iii)2. ii) and iii)3. i) and ii)4. i) and iv)

Questions	Choices
If a queue is implemented using linked list by keeping track of a front pointer and a rear pointer, which of these pointers will change during an insertion into a non-empty queue?	<p>1. Only rear pointer changes</p> <p>2. Neither of the pointers change</p> <p>3. Only front pointer changes</p> <p>4. Both of the pointers change</p>
If the running time of algorithm A is $\Theta(g(n))$, then (I) The worst-case running time of A is $O(g(n))$ (II) The best case running time of A is $\Omega(g(n))$ Pick the correct choice	<p>1. Only I is true</p> <p>2. Only II is true</p> <p>3. both I and II are true</p> <p>4. Both I and II are false</p>

Questions	Choices
In Advanced Encryption Standard, _____ arithmetic is used in the Substitution-Box.	1. Poisson 2. Galois field 3. Regular 4. Normal

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Questions	Choices
In SQL the statement select * from R, S is equivalent to	<ol style="list-style-type: none">1. Select * from R natural join S2. Select * from R cross join S3. Select * from R union join S4. Select * from R inner join S
Let $a, b \in R$ and $b > 0$. The value of $(n + a)^b$ is	<ol style="list-style-type: none">1. $\Theta(b^n)$2. $\Theta(n^b)$3. $\Theta(nb)$4. $\Theta(n + b)$

Questions	Choices
Object based data models are used in describing the abstraction at	<ol style="list-style-type: none">1. Physical level2. Both conceptual and view level3. Both Physical and conceptual level4. All the 3 Levels (Physical, Conceptual and View)
Suppose that a bus has 16 data lines and requires 4 cycles of 250 ns each to transfer data. The bandwidth of this bus would be 2 Megabytes/sec. If the cycle time of the bus was reduced to 125 ns and the number of cycles required for transfer stayed the same what would the bandwidth of the bus?	<ol style="list-style-type: none">1. 1 Megabyte/sec2. 4 Megabytes/sec3. 8 Megabytes/sec4. 2 Megabytes/sec

Questions	Choices
The relation scheme student performance (name, courseNo, rollNo, grade) has the following functional dependencies: name, courseNo \rightarrow grade Roll No, courseNo \rightarrow grade name \rightarrow rollNo rollNo \rightarrow name	1. 2 NF 2. 3 NF 3. BCNF 4. 4 NF
The highest normal form of this relation scheme is:	1. $O(n)$ 2. $O(n^2 \log n)$ 3. $O(n \log n)$ 4. $O(\log n)$
The solution of the recurrence $T(n) = T(n - 1) + \log n$ is	

Questions	Choices
What is the function used in R to create a simple linear regressor?	<p>1. lm() function</p> <p>2. lr() function</p> <p>3. slr() function</p> <p>4. slm() function</p>
Which map are extremely popular and the most common thematic map in use today.	<p>1. Flow map</p> <p>2. Choropleth map</p> <p>3. Cartogram</p> <p>4. Heat map</p>

Questions	Choices
Which of the following data structures is most efficient in terms of both space and time to reverse a string of characters?	1. queue 2. array 3. linked list 4. stack
Which of the following operations is performed more efficiently by doubly linked list than by a singly linked list?	1. Searching an unsorted list for a given item 2. Inserting a node after the node with a given location 3. Traversing the list to process each node 4. Deleting a node whose location is given

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Comprehensive Question Preview

Search:

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Questions	Choices
Which of the following search uses the problem-specific knowledge outside the definition of the problem	<p>1. Informed search</p> <p>2. Depth-first search</p> <p>3. Breadth-first search</p> <p>4. Uninformed search</p>

Questions	Choices
	1. $\{a(cd)^nb \mid n \geq 1\}$
	2.
(a+b)(cd)* (a+b) denotes the following set	$\{a(cd)^n \mid n \geq 1\} \cup \{b(cd)^n \mid n \geq 1\}$
	3. $\{a(cd)^na \mid n \geq 0\} \cup \{a(cd)^nb \mid n \geq 0\} \cup \{b(cd)^na \mid n \geq 0\} \cup \{b(cd)^nb \mid n \geq 0\}$
	4.
	$\{ac^nd^nb \mid n \geq 1\}$

Questions**Choices**

. Match the following.

List-

I

List-II

P. Regular
expression

1.

1.

P-4, Q-1, R-2, S-3

Lexical analysis

2.

P-1, Q-3, R-4, S-2

Q. Pushdown
automata
generation

2. Code

3.

P-3, Q-4, R-1, S-2

R. Dataflow
analysis
analysis

3. Syntax
P-2, Q-1, R-4, S-3

4.

S. Register
allocation
optimization

4. Code

1.

INF

. Relations that are
generated from the ER
model will always be in

2.

2NF

3.

3NF

4.

4NF

Questions	Choices
1. Which one of the following is not mandatory in a symmetric key cryptosystem?	1. a. Plain text 2. a. Cipher text 3. a. Secret key 4. a. Session key
1. In Data Encryption Standard, the encryption algorithm generates 16 different ___ subkeys, one for each of the 16 encryption rounds	1. 16-bit 2. 24-bit 3. 32-bit 4. 48-bit

Questions	Choices
1. Match the following where 'n' is the number of elements in the list. 1. Sorting a. O(1) 2. Binary search b. O(nlogn) 3. Linear search c. O(logn) 4. Search in a hash table d. O(n)	1. 1-b, 2-c, 3-a, 4-d 2. 1-c, 2-b, 3-a, 4-d 3. 1-b, 2-c, 3-d, 4-a 4. 1-a, 2-c, 3-b, 4-d
1. What is the output of the following recursive function when cal(2,4) is called? int func(int x, int y) { if (y==2) return 1; else return x * func(x,y-1); }	1. Output is 6 2. Output is 4 3. Output is 2 4. Output is 5

Questions	Choices
1. Convex hull is defined as the smallest _____ that encloses all the given points in 2-D space.	1. Polygon 2. Rectangle 3. Ellipse 4. Circle

Questions**Choices**

1. Find the time complexity of the code segment below.

```
function daa(A, n, T)
```

```
    L := 0
```

```
    R := n - 1
```

```
    while L ≤ R do
```

```
        m := floor((L + R) / 2)
```

```
        if A[m] < T then
```

```
            L := m + 1
```

```
        else if A[m] > T then
```

```
            R := m - 1
```

```
        else:
```

```
            return m
```

```
    return unsuccessful
```

1.
 $O(n)$

2.
 $O(n!)$

3.
 $O(\log n)$

4.
 $O(n \log n)$

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Comprehensive Question Preview

Search:

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Questions	Choices
1. Given the following three points in 2D-space, find the orientation of $P_3 P_5$ with P_4   	1. Clockwise 2. Counter Clockwise 3. Collinear 4. Cannot be determined.

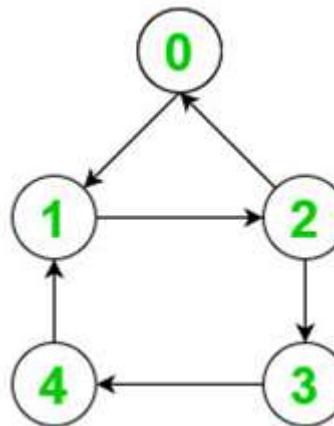
Questions	Choices
1. Identify the relationship between P and NP complexity classes of algorithms.	<ul style="list-style-type: none">1. P and NP are disjoint2. P is a subset of NP3. NP is a subset of P4. P and NP are equal

Questions

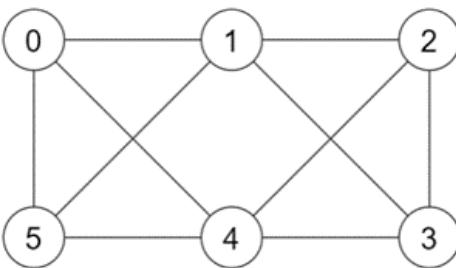
1. Identify which graph below is a bipartite graph.

Choices

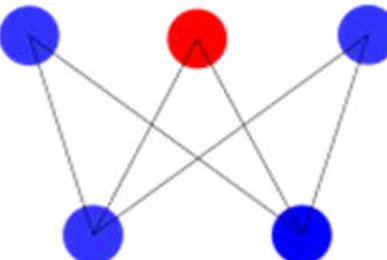
1.



2.



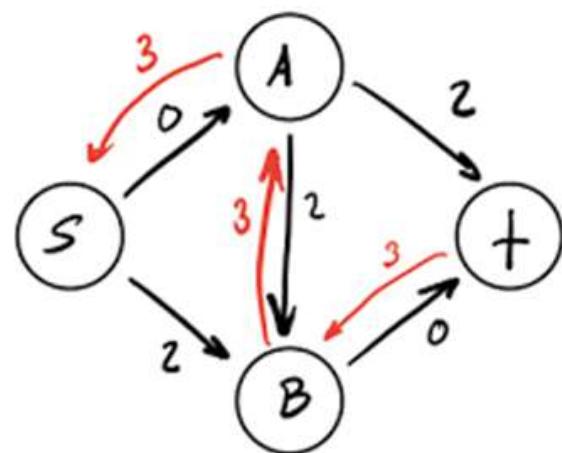
3.



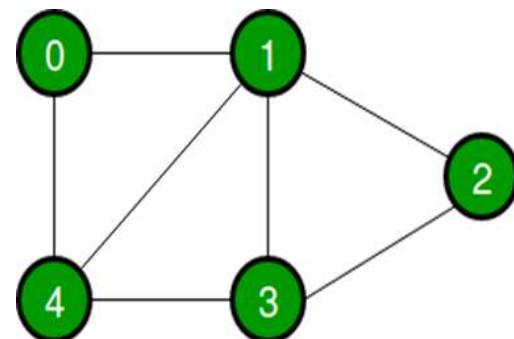
Questions

Choices

1. In the network flow graph, the flow edges are marked in red. Identify the **path from the list below which is a valid augmenting path** when “Ford Fulkerson algorithm for finding max flow” is applied.



4.



1. s-A-t
2. s-B-t
3. s-B-A-t
4. s-B-A-B-t

Questions	Choices
<p>1. Match the following with respect to a network flow graph.</p> <p>1. Flow conservation constraint a. Source and sink nodes should not be in the same set</p> <p>2. Capacity constraint b. Incoming flow equals the outgoing flow from a vertex</p> <p>3. s-t cut c. The edges must have either capacity or flow greater than 0</p> <p>4. Augmenting path d. Flow cannot exceed the capacity over an edge</p>	<p>1. 1-c,2-b,3-a, 4-d</p> <p>2. 1-b,2-d, 3-a, 4-c</p> <p>3. 1-b, 2-d,3-c, 4-a</p> <p>4. 1-a, 2-b, 3-d, 4-c</p>
<p>1. Match the following.</p> <p>1.Divide and conquer overlapping subproblems</p> <p>2. Dynamic programming space tree</p> <p>3. Backtracking decision in a state space tree</p> <p>4. Branch and bound subproblems</p>	<p>a. 1-d, 2-c, 3-a, 4-b</p> <p>b. state 1-d, 2-a, 3-b, 4-c</p> <p>c. branching 1-a, 2-d, 3-c, 4-b</p> <p>d. disjoint 1-d, 2-a, 3-c, 4-b</p>

Questions	Choices
1. Pick out one from below that does not come under complexity class "NP"	1. $O(n^n)$ 2. $O(n!)$ 3. $O(n^3)$ 4. $O(2^n)$
1. Pick out one from below that does not come under complexity class "P".	1. $O(n \log n)$ 2. $O(n^3)$ 3. $O(n^3 \log n)$ 4. $O(2^n)$
1. Pick out the algorithm whose time complexity is not $O(n^3)$	1. Matrix multiplication 2. Floyd's algorithm 3. Warshall's algorithm 4. Matrix Addition

Questions	Choices
1. Pick out the statement below which is false.	1. The steps in a deterministic algorithm are uniquely defined 2. The outcome of each step in a nondeterministic algorithm cannot be determined 3. The deterministic algorithms are efficient 4. The nondeterministic algorithms are efficient

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Questions	Choices
1. Polynomial reduction is transitive implies the following is true where L_1 and L_2 are unknown problems. Pick out the correct option.	1. $(\text{Sat } \alpha_p L_1) \text{ and } (L_1 \alpha_p L_2) \xrightarrow{\text{implies}} (\text{Sat } \alpha_p L_2)$ 2. $(\text{Sat } \alpha_p L_1) \text{ and } (L_2 \alpha_p L_1) \xrightarrow{\text{implies}} (\text{Sat } \alpha_p L_2)$ 3. $(L_1 \alpha_p L_2) \text{ and } (\text{Sat } \alpha_p L_2) \xrightarrow{\text{implies}} (\text{Sat } \alpha_p L_2)$ 4. $(L_2 \alpha_p L_1) \text{ and } (\text{Sat } \alpha_p L_1) \xrightarrow{\text{implies}} (\text{Sat } \alpha_p L_2)$

Questions	Choices
	1. NPC is $(NP-Hard \cap NP)$
1. The relationship between NP, NP-Hard and NP-Complete (NPC) is the following	2. NPC is $(NP-Hard \cup NP)$
	3. NPC is $(NP-Hard \cap \neg NP)$
	4. NPC is $(\neg NP-Hard \cup \neg NP)$
	1. $O(n \log n)$
1. What is the average time complexity of randomized quicksort?	2. $O(n^2)$
	3. $O(n^2 \log n)$
	4. $O(n^3)$

Questions	Choices
1. What is the time complexity of Edmond Karps algorithm where 'V' is the set of vertices and 'E' is the number of edges in the network flow graph.	1. $O(VE)$ 2. $O(VE^2)$ 3. $O(V^2E)$ 4. $O(V^2 E^2)$
1. Which algorithm strategy listed below guarantees in producing near optimal solution with reasonable time complexity?	1. Brute force 2. Heuristic 3. Approximate 4. Nondeterministic

Questions	Choices
What is an event in delegation event model used by Java programming language?	<p>1. An event is an object that describes a state change in a source</p> <p>2. An event is an object that describes a state change in processing</p> <p>3. An event is a class used for defining object, to create events</p> <p>4. An event is an object that describes any change by the user and system</p>
What is javax.servlet.Servlet?	<p>1. interface</p> <p>2. abstract class</p> <p>3. concrete class</p> <p>4. final class</p>

Questions

Choices

What will be the effect of the following code snippet in Java?

```
1 try
2 {
3     File f = new File("a.txt");
4 }
5 catch(Exception e)
6 {
7 }
8 catch(IOException e)
9 {
10 }
```

1. Creates a new file “a.txt”
2. Opens an existing file “a.txt”
3. Compilation error
4. Raises an exception which will not be handled by the code

Questions	Choices
Which of the following code is used to get names of the parameters in servlet? (Objects in the options closely represent the classes from which they are created)	<p>1. <code>request.getParameterNames()</code></p> <p>2. <code>response.getParameterNames()</code></p> <p>3. <code>Header.getParameterNames()</code></p> <p>4. <code>request.extractParameterNames()</code></p>
Which of the following code retrieves name and version of the protocol in Servlet programming? (Objects in the options closely represent the classes from which they are created)	<p>1. <code>Header.getProtocol()</code></p> <p>2. <code>response.getProtocol()</code></p> <p>3. <code>request.getProtocol()</code></p> <p>4. <code>request.getNameVersionProtocol()</code></p>

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Comprehensive Question Preview

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Questions	Choices
	1. 10
3. Let $f(n) = 2n$ and $g(n) = n^3 + 10$. Assume that we write $g(n) = O(f(n))$ using the standard definition of big-oh notation. Then the value of n_0 is	2. 9 3. 8 4. 7

Questions	Choices
<p>Find the false statement/s?</p> <p>(A) There is unique minimal DFA for every regular language</p> <p>(B) All non-deterministic Turing machine can't be converted to an equivalent deterministic Turing machine</p> <p>(C) All RE is not a CFL</p> <p>(D) All subset of a recursively enumerable set is not recursive</p>	<p>1. A and B</p> <p>2. B and C</p> <p>3. A and D</p> <p>4. D only</p>
<hr/>	<hr/>
<hr/>	<hr/>
<p>Which of the following statements is false?</p> <p>(A) Every NFA can be converted to an equivalent DFA</p> <p>(B) Every non-deterministic Turing machine can be converted to an equivalent deterministic Turing machine</p> <p>(C) Every regular language is also a context-free language</p> <p>(D) Every subset of a recursively enumerable set is recursive</p>	<p>1.D ONLY 2. A ONLY</p> <p>3. B ONLY</p> <p>4. C ONLY</p>
<hr/>	<hr/>
<hr/>	<hr/>

Questions	Choices
	1. 11
John is asked to make an automaton which accepts a given string for all the occurrence of '1001' in it. How many number of transitions would John use such that, the string processing application works?	2. 9
	3. 12
	4. 15
	1. 0
.L1= {w w does not contain the string tr } L2= {w w does contain the string tr}	2.
Given $\Sigma = \{t, r\}$, The difference of the minimum number of states required to form L1 and L2?	1 3. 2 4. Cannot be said

Questions	Choices
Consider the following languages: $L_1 = \{0^i 1^j \mid i \neq 2j\}$ $L_2 = \{0^i 1^j \mid i = 2j+1\}$ $L_3 = \{0^i 1^j \mid i = j\}$ $L_4 = \{0^i 1^j \mid i \neq j\}$	1. Only L3 <hr/> 2. Only L3 & L2 <hr/> 3. Only L4 & L3 <hr/> 4. L1, L2, L3, and L4 <hr/>
Which of these is/are context-free:	<hr/>
Consider the language given below: $\{a^m b^n C^{(m+n)} \mid m, n \geq 1\}$ It is a _____ language.	1. regular <hr/> 2. not context-free but context sensitive <hr/> 3. not context-sensitive but type-0 <hr/> 4. not regular but context-free <hr/>

Questions	Choices
Consider the RE for all strings starts with xy and ends with yyx is.	1. xyx^*y^*yyx 2. $xy(xy)^*yyx$ 3. $xy(x+y)^*yyx$
	4. $xyx^*y^*x^*yyx$
For the given grammar $S \rightarrow S + a \mid S \times a \mid a$	1. $a, S + a$
For a sentence $a + a \times a$, the handles in the right-sentential form of the reduction are	2. $a, S + S \times a$ 3. $a, a + a \text{ and } a + a \times a$ 4. $a, S + a \text{ and } S \times a$

Questions	Choices
<p>Given the grammar</p> $\begin{aligned} E &\rightarrow T^* E \mid T \\ T &\rightarrow F^+ T \mid F \\ F &\rightarrow a \mid b \end{aligned}$ <p>Which of the following statements is wrong?</p>	<p>1. Precedence of + over * is confirmed</p> <p>2. Parsing is ambiguous</p> <hr/> <p>3. Right to left assessment of * and + occurs</p> <hr/> <p>4. Parsing is unambiguous</p> <hr/>

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Comprehensive Question Preview

Search:

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Questions	Choices
	1. $r \leq P \geq l$
If G is the CFG, r is the total number of rightmost derivations, l is the total number of leftmost derivations, as well as P refers to the total number of parse trees, then assume that r, l, and P are computed for some given particular string. Here, for a given 'G' CFG and given 'w' string, what is the relation between all three of these?	2. $r = P = l$
	3. $r \geq P \leq l$
	4. $r \geq P = l$

Questions	Choices
<p>If we consider an arbitrary NFA (non-deterministic finite automaton) with N states in total, the maximum number of states that are there in an equivalent DFA (minimised) is at least:</p> <hr/>	<ol style="list-style-type: none"><li data-bbox="1201 182 1268 261">1. $N!$<li data-bbox="1201 293 1268 372">2. $2N$<li data-bbox="1201 436 1268 515"><hr/>3. 2^N<li data-bbox="1201 595 1268 674"><hr/>4. N^2
<p>If you consider a regular expression r, in which $r = (11 + 111)^*$ over $\Sigma = \{0, 1\}$, then the number of states in minimal DFA and NFA respectively are:</p> <hr/>	<ol style="list-style-type: none"><li data-bbox="1201 737 1448 817">1. DFA – 4, NFA – 3<li data-bbox="1201 896 1448 976"><hr/>2. DFA – 3, NFA – 3<li data-bbox="1201 1007 1448 1087"><hr/>3. DFA – 3, NFA – 4<li data-bbox="1201 1150 1448 1229"><hr/>4. DFA – 4, NFA – 4

Questions**Choices**

In the finite automaton with minimum state deterministic that accepts a given language $L = \{w \mid w \in \{0,1\}^*, \text{ the total number of } 0\text{s as well as } 1\text{s in } w \text{ that would be divisible by } 3 \text{ & } 5, \text{ respectively}\}$ would have:

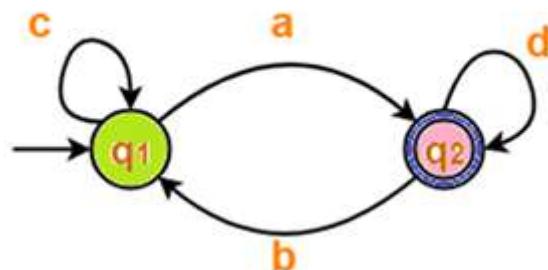
1.
9 states

2.
10 states

3.
11 states

4.
15 states

Regular expression for the given DFA is



1.
 c^*ad^*

2.
 $c^*a(d+bc^*a)^*$

3.
 $c^*ad^*ba^*d^*$

4.
 $c^*a(d^*+bc^*a)^*$

Questions	Choices
<p>The total number of states to build the given language using DFA:</p> $L = \{w \mid w \text{ has exactly 2 a's and at least 2 b's}\}$	<ul style="list-style-type: none"><li data-bbox="1208 187 1253 219">1.<li data-bbox="1208 234 1253 266">10<li data-bbox="1208 298 1253 330">2.<li data-bbox="1208 345 1253 377">11<li data-bbox="1208 409 1253 441">3.<li data-bbox="1208 457 1253 488">12<li data-bbox="1208 520 1253 552">4.<li data-bbox="1208 568 1253 599">13
	<p>1.</p> $\{x \in \{0,1\}^* \mid x \text{ is all binary number with even length}\}$
<p>Which among the following looks similar to the given expression?</p> $((0+1) \cdot (0+1))^*$	<p>2.</p> $\{x \in \{0,1\}^* \mid x \text{ is all binary number with even length}\}$
	<p>3.</p> $\{x \in \{0,1\}^* \mid x \text{ is all binary number with odd length}\}$
	<p>4.</p> $\{x \in \{0,1\}^* \mid x \text{ is all binary number with odd length}\}$

Questions**Choices**

Which of the following pairs of regular expressions are equivalent?

- a. $(01)^*$ and $(10)^*$
 - b. $x(xx)^*$ and $(xx)^*x$
 - c. x^+ and $x+x^*+$
-

Which one of these given regular expressions isn't equivalent to this regular expression:

$$(m + n + o)^*$$

- 1.
a only
-

- 2.
b only
-

- 3.
c only
-

- 4.
a, b and c
-

- 1.
 $(m^*n^* + o^*)^*$

- 2.
 $((mn)^* + o^*)^*$
-

- 3.
 $(m^*n^*o^*)^*$
-

- 4.
 $(m^* + n^* + o^*)^*$
-

Questions	Choices
Given the language $L = \{ab, aa, baa\}$, which of the following strings are in L^* ? 1) abaabaaaabaa 2) aaaabaaaa 3) baaaaabaaaab 4) baaaaabaa	1. 1, 2, 3 2. 2, 3, 4 3. 1, 2, 4 4. 1, 3, 4

Showing 1 to 10 of 10 entries

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Comprehensive Question Preview

Search:

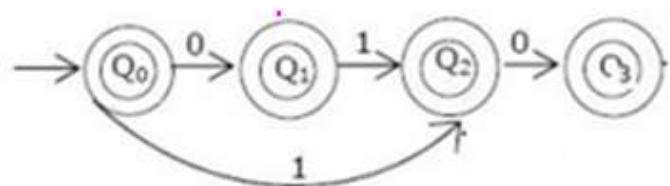
Search:

Questions	Choices
<p>L1 is accepted by the NFA, obtained by changing the accepting state of M to a non-accepting state and vice versa. Which of the following statements is true?</p> <pre>graph LR; S(()) -- "0" --> A((())); A -- "1" --> B((()); A -- "1" --> C(()); B -- "0" --> A; B -- "1" --> C; C -- "1" --> A; C -- "0" --> B;</pre>	<p>1. $L1 = \{0, 1\}^* - L$</p> <hr/> <p>2. $L1 = \{0, 1\}^*$</p> <hr/> <p>3. $L1 \subseteq L$</p> <hr/> <p>4. $L1=L$</p> <hr/>

Questions**Choices**

Let w be any string of length n in $\{0,1\}^*$. Let L be the set of all substrings of w .

State the minimum number of states in a NDFA that accepts L ?



Let $L_1 = \{w \in \{0,1\}^* \mid w \text{ has at least as many occurrences of } (110)\text{'s as } (011)\text{'s}\}$

Let $L_2 = \{w \in \{0,1\}^* \mid w \text{ has at least as many occurrences of } (000)\text{'s as } (111)\text{'s}\}$

Which one of the following is TRUE?

1.

$n - 1$

2.

n

3.

$n + 1$

4.

$2n - 1$

1.

L_1 is regular but not L_2

2.

L_2 is regular but not L_1

3.

Both L_2 and L_1 are regular

4.

Neither L_1 nor L_2 are regular

Questions	Choices
. The number of tokens in the following C code segment is	1. 27 2. 29 3. 26 4. 24
1. switch(inputvalue) 2. { 3. case 1 : b =c*d; break; 4. default : b =b++; break; 5. }	
	1. i) $A \rightarrow A'a$ ii) $A' \rightarrow AB / Dc$ iii) $D \rightarrow a / c$
Consider the grammar $A \rightarrow aAB / aBc / aAc$ Find the left factoring	2. i) $A \rightarrow aA'$ ii) $A' \rightarrow AD / Bc$ iii) $D \rightarrow c$
	3. i) $A \rightarrow aA'$ ii) $A' \rightarrow AD /$ Bc iii) $D \rightarrow B / c$
	4. i) $A \rightarrow aA'$ ii) $A' \rightarrow AB /$ Dc iii) $D \rightarrow B / c / a$

Questions	Choices
Consider the regular expression $a^*(ba^*)^*$ which among the following designates the identical set as	1. $(a+b)^*ba(a+b)^*$ 2. $a+(a+ba)^*$ 3. $(a^*b)^*ba^*$ 4. $(b^*a)^*b^*$
The number of tokens in the following C code segment is switch(A) { case 1 : m =n*p; break; case 2 : s =u*v; break; default : q =q++; break; }	1. 34 2. 37 3. 33 4. 35

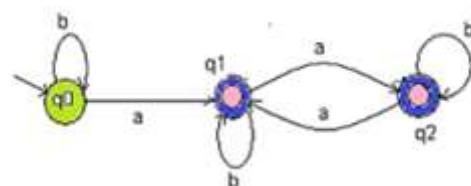
Questions**Choices**

Which one of the following is FALSE?

- (A) There is unique minimal DFA for every regular language
- (B) Every NFA can be converted to an equivalent PDA.
- (C) Complement of every context-free language is recursive.
- (D) Every nondeterministic PDA can be converted to an equivalent deterministic PDA.

- 1. A only
- 2. B only
- 3. C only
- 4. D only

Which one of the following is true for this finite state automaton?



1.
 $b^*ab^*ab^*$

2.
 $b^*a(a+b)^*$

3.
 $b^*ab^*ab^*ab^*$

4.
 $(a+b)^*b$

Questions	Choices
Which one of the following is/are FALSE?	1. A and B
(A) All non-deterministic finite automata can be converted to equivalent deterministic finite automata	2. B, C and D
(B) Every NFA can be converted to an equivalent PDA.	3. C only
(C) Complement of every context-free language is not recursive.	4. D only
(D) Every nondeterministic Push down automata can't be converted to an equivalent deterministic Push down automata.	

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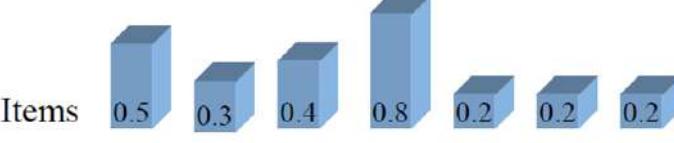
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Questions	Choices
	1. 0.5, 0.3, 0.2
	0.4, 0.2, 0.2
	0.8
1. Apply approximation algorithm that applies first fit strategy to pack the items into bins.	2. 0.5, 0.3 0.4, 0.2, 0.2, 0.2 0.8
Items	
	3. 0.5, 0.3 0.4, 0.2, 0.2 0.8, 0.2
	4. 0.5, 0.4 0.3, 0.2, 0.2 0.8, 0.2

Questions	Choices
VMware is a ----- cloud deployment model?	<ol style="list-style-type: none">1. Public2. Private3. Dedicated4. Hybrid
Cloud vendors offer PaaS solutions , not in the form of	<ol style="list-style-type: none">1. iPaaS2. mPaaS3. cPaaS4. ePaaS

Questions	Choices
Point out the wrong statement	<ol style="list-style-type: none"><li data-bbox="1275 187 1680 298">1. All hybrid clouds are multi clouds<li data-bbox="1275 325 1680 436">2. All multi clouds are hybrid clouds<li data-bbox="1275 463 1680 574">3. All Dedicated clouds are private clouds<li data-bbox="1275 601 1680 712">4. All hybrid clouds are heterogeneous clouds
Cloud computing can be defined as	<ol style="list-style-type: none"><li data-bbox="1275 774 1545 822">1. World wide web<li data-bbox="1275 849 1635 976">2. Organize your Desktop Systems<li data-bbox="1275 1002 1724 1114">3. Computing resource that can be accessed on demand<li data-bbox="1275 1141 1680 1252">4. A method that creates a pool of similar resources

Questions	Choices
	<p>Which of the following is an example of Private cloud?</p> <ul style="list-style-type: none">1. IBM Smart cloud2. Amazon EC23. Amazon VPC4. Google App Engine

Questions	Choices
Why cloud servers ? A. Integration B. Scalability C. Cost effectiveness D. Billing	1. A, B & C 2. A, C & D 3. B, C & D 4. D
Cloud carrier is a	1. Unit that manages the performance, use, and delivery of cloud services 2. Mediator within cloud service providers and cloud consumers 3. Conduct independent assessment of cloud services, security, performance 4. The end-user who browses or utilizes the services

Questions	Choices
Code development is ----- service	<ol style="list-style-type: none">1. PaaS2. SaaS3. FaaS4. IaaS
The NIST Characteristics of the Cloud doesn't include	<ol style="list-style-type: none">1. On-demand Self Service2. Resource grouping3. Scalability4. Elasticity

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Questions	Choices
Which of the following is google app engine implementation?	<ol style="list-style-type: none">1. SaaS2. NaaS3. IaaS4. PaaS
For additional value-added services from the cloud, the consumer needs to communicate -----	<ol style="list-style-type: none">1. Cloud Provider2. Cloud Auditor3. Cloud Broker4. Cloud Carrier

Questions	Choices
In which of the following service models the hardware is virtualized in the cloud?	<ol style="list-style-type: none"><li data-bbox="1140 187 1208 219">1.<li data-bbox="1140 223 1208 255">IaaS<li data-bbox="1140 287 1208 318">2.<li data-bbox="1140 323 1208 355">NaaS<li data-bbox="1140 387 1208 418">3.<li data-bbox="1140 423 1208 455">PaaS<li data-bbox="1140 487 1208 518">4.<li data-bbox="1140 523 1208 555">SaaS
Point out the wrong statement about Cloud solutions	<ol style="list-style-type: none"><li data-bbox="1140 620 1208 652">1.<li data-bbox="1140 657 1711 726">Integrate applications and data across multiple clouds<li data-bbox="1140 758 1208 790">2.<li data-bbox="1140 795 1439 864">Migrate existing on-premises workloads<li data-bbox="1140 896 1208 928">3.<li data-bbox="1140 933 1630 1002">Traditional infrastructure among existing application<li data-bbox="1140 1034 1208 1066">4.<li data-bbox="1140 1071 1686 1141">Open and secure public platform for business

Questions	Choices
1. Role of a cloud provider is / are	1. Interoperability & Interoperability 2. Intermediation & Auditing 3. Resource abstraction & Interoperability 4. Auditing & Resource abstraction
1. Who is the father of cloud computing?	1. Sharon B. Codd 2. Edgar Frank Codd 3. J.C.R. Licklider 4. Charles Bachman
1. The K-Map for following function will have $F(w,x,y,z) = \sum(0,1,2,4,5,6,8,9,12,13,14)$	1. 2 pairs, 1 Quad, 0 Octet 2. 2 pairs, 2 Quad, 1 Octet 3. 1 pair, 2 Quad, 1 Octet 4. 0 pair, 2 Quad, 1 Octet

Questions	Choices
1. The pair of following statements represents $(xy)'=x' + y'$; $(x+y)=x'y'$ $(x+y')'=x' + y$; $(x+y')=x'y$	1. DeMorgan's Theorem 2. Duality 3. Inversion 4. Both 'a' an 'b'
1. Which of the following is used for storing 1 bit digital data	1. NAND gate 2. NOR Gate 3. Flip Flop 4. Register
1. Which of the following statement is not correct?	1. $X + X Y = X$ 2. $X(X + Y) = XY$ 3. $X+XY = X$ 4. $ZX + Z X Y = ZX + ZY$

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Questions	Choices
Which of the following evaluation metrics cannot be applied in case of logistic regression output to compare with target?	<p>1. accuracy</p> <p>2. auc-roc</p> <p>3. logloss</p> <p>4. mean-squared-error</p>

Questions	Choices
Monte Carlo randomized algorithm's correctness is _____ and time complexity is _____.	1. deterministic, probabilistic 2. probabilistic, deterministic 3. non-deterministic, deterministic 4. deterministic, non-deterministic
In the HTTP status response code, the responses are grouped into _____ number of classes.	1. 4 2. 3 3. 5 4. 6

Questions	Choices
In the HTTP response status code the client error responses are numbered from	1. 400-450 2. 200-250 3. 400-499 4. 500-599
Autoscaling comes among which Amazon web services	1. Storage services 2. Communication services 3. Additional services 4. Compute services
Which domain does the task of checking for the authorized client in DNS Domains?	1. Inverse domain 2. Generic domain 3. Resolver domain 4. Resolution domain

Questions	Choices
Which of the following methods is used to access HTML elements using Javascript?	<ol style="list-style-type: none"><li data-bbox="1073 187 1388 260">1. getElementById()<li data-bbox="1073 287 1432 360">2. getElementsByName()<li data-bbox="1073 387 1567 488">3. getElementById() and getElementsByName()<li data-bbox="1073 515 1455 588">4. getElementsByClass()
Which of the following is a disadvantage of decision trees?	<ol style="list-style-type: none"><li data-bbox="1073 647 1275 720">1. Factor analysis<li data-bbox="1073 822 1522 895">2. Decision trees are robust to outliers<li data-bbox="1073 996 1545 1069">3. Decision trees are prone to be overfit<li data-bbox="1073 1171 1298 1244">4. None of these

Questions	Choices
Which of the following is a widely used and effective machine learning algorithm based on the idea of bagging?	<p>1. Decision Tree</p> <p>2. Regression</p> <p>3. Classification</p> <p>4. Random Forest</p>

Questions	Choices
	1. Partitioned
Which one of the clustering technique needs the merging approach?	2. Naïve Bayes
	3. Hierarchical
	4. Both Partitioned and Naïve Bayes

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Questions	Choices
Which of the following statements about hierarchical clustering is incorrect?	<p>1. The hierachal clustering can primarily be used for the aim of exploration</p> <p>2. The hierachal clustering should not be primarily used for the aim of exploration</p> <p>3. Both A and B</p> <p>4. None of these</p>

Questions	Choices
If machine learning model output involves target variable then that model is called as _____	<p>1. predictive model</p> <p>2. descriptive model</p> <p>3. reinforcement learning</p> <p>4. All of these</p>

Questions	Choices
Which one of the following correctly defines the term cluster?	<p>1. Group of similar objects that differ significantly from other objects</p> <p>2. Symbolic representation of facts or ideas from which information can potentially be extracted</p> <p>3. Operations on a database to transform or simplify data in order to prepare it for a machine-learning algorithm</p> <p>4. All of these</p>

Questions	Choices
How do you handle missing or corrupted data in a dataset?	<ol style="list-style-type: none">1. Drop missing rows or columns2. Replace missing values with mean/median/mode3. Assign a unique category to missing values4. All of these

Questions	Choices
A collection of hyperlinked documents on the internet forms the?	<p>1. World Wide Web (WWW)</p> <p>2. E-mail system</p> <p>3. Mailing list</p> <p>4. Hypertext markup language</p>

Questions	Choices
Which one of the following statements about the K-means clustering is incorrect?	<ol style="list-style-type: none">1. The goal of the k-means clustering is to partition (n) observation into (k) clusters2. K-means clustering can be defined as the method of quantization3. The nearest neighbor is the same as the K-means4. All of these

Questions	Choices
The location of a resource on the internet is given by its?	<p>1. Protocol</p> <p>2. URL</p> <p>3. E-mail address</p> <p>4. ICQ</p>

Questions	Choices
Which of the following usually observe each activity on the internet of the victim, gather all information in the background, and send it to someone else?	<ol style="list-style-type: none">1. Malware2. Spyware3. Adware4. Ransomware

Questions	Choices
Which one of the following is the most common internet protocol?	<p>1. HTML</p> <p>2. NetBEUI</p> <p>3. TCP/IP</p> <p>4. IPX/SPX</p>

Questions	Choices
Which one of the following would breach the integrity of a system?	<p>1. Looking the room to prevent theft</p> <p>2. Full access rights for all users</p> <p>3. Fitting the system with an anti-theft device</p> <p>4. Protecting the device against willful or accidental damage</p>

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Questions	Choices
The problem of finding hidden structure in unlabeled data is called _____	<ol style="list-style-type: none">1. unsupervised learning2. reinforcement learning3. supervised learning4. None

Questions	Choices
The effectiveness of an SVM depends upon _____	<ol style="list-style-type: none">1. kernel parameters2. selection of kernel3. soft margin parameter4. All of these

Questions	Choices
Which learning requires Self-Assessment to identify patterns within data?	<ol style="list-style-type: none">1. supervised learning2. unsupervised learning3. semi supervised learning4. reinforced learning

Questions	Choices
A student Grade is a variable F1 which takes a value from A,B,C and D. Which of the following is True in the following case?	<p>1. variable f1 is an example of ordinal variable</p> <p>2. it doesn't belong to any of the mentioned categories</p> <p>3. variable f1 is an example of nominal variable</p> <p>4. it belongs to both ordinal and nominal category</p>

Questions	Choices
If machine learning model output doesn't involves target variable then that model is called as _____	<ul style="list-style-type: none">1. predictive model2. descriptive model3. reinforcement learning4. All of these

Questions	Choices
In simple term, machine learning is _____	<ol style="list-style-type: none">1. prediction to answer a query2. training based on historical data3. All of these4. None of these

Questions	Choices
	1. choose k to be 99% of m ($k = 0.99*m$, rounded to the nearest integer)
Which of the following is a reasonable way to select the number of principal components "k"?	2. choose k to be the smallest value so that at least 99% of the variance is retained
	3. choose k to be the largest value so that 99% of the variance is retained
	4. use the elbow method

Questions	Choices
What is back propagation?	<p>1. It is another name given to the curvy function in the perceptron</p> <p>2. It is the transmission of error back through the network to allow weights to be adjusted so that the network can learn</p> <p>3. It is the transmission of error back through the network to adjust the inputs</p> <p>4. None of these</p>

Questions	Choices
What is perceptron?	<p>1. A single layer feed-forward neural network with per-processing</p> <p>2. A neural network that contains feedback</p> <p>3. A double layer auto-associative neural network</p> <p>4. An auto-associative neural network</p>

Questions	Choices
What is the objective of back propagation algorithm?	<p>1. To develop learning algorithm for multi layer feed forward neural network, so that network can be trained to capture the mapping implicitly</p> <p>2. To develop learning algorithm for multi layer feed forward neural network</p> <p>3. To develop learning algorithm for single layer feed forward neural network</p> <p>4. All of these</p>

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Questions	Choices
Which is true for neural networks?	<ol style="list-style-type: none">1. Each node computes it's weighted input2. Node could be in excited state or non-excited state3. It has set of nodes and connections4. All of these

Questions	Choices
1. Choose the statement from below which is correct related to the bin packing approximation algorithm.	<ol style="list-style-type: none"><li data-bbox="1170 176 1686 303">1. First fit looks for the tight-fitting hole for the item<li data-bbox="1170 334 1686 461">2. Next fit places item in the current bin or in the next bin<li data-bbox="1170 493 1686 620">3. Best fit looks for the first hole large enough for the item<li data-bbox="1170 652 1686 779">4. Next fit and First fit produce same result always
1. A series of equal space time pulses may be easily generated by which type of counter circuit?	<ol style="list-style-type: none"><li data-bbox="1170 810 1686 906">1. Johnson Shift<li data-bbox="1170 937 1686 1033">2. Clock Shift<li data-bbox="1170 1064 1686 1160">3. Binary Shift<li data-bbox="1170 1191 1686 1287">4. Ring Counter

Questions	Choices
	1. A counter has the capability to store n bit of information whereas a register has one bit.
1. The primary difference between a counter and a register is	2. A register counts data. 3. A register has no specific sequence of states. 4. A counter has no particular sequence of states.
State true or False. In python programming, Strings are easily modifiable and mutable in nature.	1. True 2. False 3. Not Sure 4. Both are correct

Questions	Choices
	1. i & ii
Figure out which of these is part of the Google cloud service models? i) Workspace ii) Computer Engine iii) Cloud Pricing Calculator	2. i & iii 3. ii & iii 4. i, ii, iii
	1. 1 & 4
1. Cloud computing architecture is a combination of? 1. Service-oriented architecture 2. Grid architecture 3. Utility architecture 4. Event-driven architecture.	2. 2& 3 3. 3& 4 4. 2& 4

Questions	Choices
Which is/ are True about FaaS A. A subset of serverless B. Event-driven computing C. Run and manage microservices applications D. Require significant maintenance for updating and managing operating systems.	1. A , B & C 2. A , B & D 3. D 4. B & D
Challenges in Cloud Computing A. Conflict to legacy programs B. Provenance C. QoS Measurement D. Reduction in Latency	1. B & C 2. A & C 3. D & C 4. A & D <i>+ doubt</i>

Questions	Choices
Match the following	<p>1. Storage & Content delivery a. Message Queuing Services</p> <p>2. Networking b. Glacier</p> <p>3. Application service c. Direct Connect</p> <p>4. Deployment & Management d. Elastic Beanstalk</p>

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same qns repeated

Questions	Choices
Which is true for neural networks?	<ol style="list-style-type: none">1. Each node computes its weighted input2. Node could be in excited state or non-excited state3. It has set of nodes and connections4. All of these

Questions	Choices
1. Choose the statement from below which is correct related to the bin packing approximation algorithm.	<ol style="list-style-type: none">1. First fit looks for the tight-fitting hole for the item2. Next fit places item in the current bin or in the next bin3. Best fit looks for the first hole large enough for the item4. Next fit and First fit produce same result always
1. A series of equal space time pulses may be easily generated by which type of counter circuit?	<ol style="list-style-type: none">1. Johnson Shift2. Clock Shift3. Binary Shift4. Ring Counter

Questions	Choices
	1. A counter has the capability to store n bit of information whereas a register has one bit.
1. The primary difference between a counter and a register is	2. A register counts data. 3. A register has no specific sequence of states. 4. A counter has no particular sequence of states.
State true or False. In python programming, Strings are easily modifiable and mutable in nature.	1. True 2. False 3. Not Sure 4. Both are correct

Questions	Choices
	1. i & ii
Figure out which of these is part of the Google cloud service models? i) Workspace ii) Computer Engine iii) Cloud Pricing Calculator	2. i & iii 3. ii & iii 4. i, ii, iii
	1. 1 & 4
1. Cloud computing architecture is a combination of? 1. Service-oriented architecture 2. Grid architecture 3. Utility architecture 4. Event-driven architecture.	2. 2& 3 3. 3& 4 4. 2& 4

Questions	Choices
Which is/ are True about FaaS A. A subset of serverless B. Event-driven computing C. Run and manage microservices applications D. Require significant maintenance for updating and managing operating systems.	1. A , B & C 2. A , B & D 3. D 4. B & D
Challenges in Cloud Computing A. Conflict to legacy programs B. Provenance C. QoS Measurement D. Reduction in Latency	1. B & C 2. A & C 3. D & C 4. A & D

Questions	Choices
Match the following	<p>1. Storage & Content delivery a. Message Queuing Services</p> <p>2. Networking b. Glacier</p> <p>3. Application service c. Direct Connect</p> <p>4. Deployment & Management d. Elastic Beanstalk</p>

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Questions	Choices
1. Express $Y = (A+B+C') (A+ B'+C') (A+B+C)$ in maxterm designation	1. $Y= M4M6M7$ 2. $Y= M0M1M3$ 3. $Y= m4m6m7$ 4. $Y= m0m1m3$

Questions	Choices
Which is the object on which the event occurred or with which the event is associated?	<ol style="list-style-type: none">1. event type2. event target3. both event type and even target4. interface
What will be the output of the following Python expression if x=56.236?	<ol style="list-style-type: none">1. 56.2362. 56.233. 56.00004. 56.24
print("%.2f"%x)?	

Questions	Choices
Which of the following bus is used to transfer data from main memory to peripheral device?	1. DMA bus 2. IO bus 3. Address BUs 4. Data bus
Library-level virtualization is also known as	1. user-level virtualization 2. OS-level virtualization 3. process- level virtualization 4. application level virtualization
Which one of the following is not a type-1 hypervisor?	1. Xen 2. Hyper-V 3. KVM 4. Virtualbox

Questions	Choices
method are used to register a keyboard event listener.	1. keylistener() 2. addkistener() 3. addkeylistener() 4. eventkeyboardlistener()
which of these events will be notified if scroll bar is manipulated?	1. windowevent 2. actionevent 3. adjustmentevent 4. componenteven
which of these methods are used to register a mouse motion listener?	1. addmouse() 2. addmouselistener() 3. addmousemotionlistner() 4. eventmouseemotionlistener()

Questions	Choices
which of these methods can be used to determine the type of event?	<p>1. <input checked="" type="radio"/> getid()</p> <p>2. <input type="radio"/> getevent()</p> <p>3. <input type="radio"/> getsource()</p> <p>4. <input type="radio"/> geteventobject()</p>

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Questions	Choices
which of these packages contains all the classes and methods required for event handling in java?	1. java.awt 2. java.event 3. java.applet <input checked="" type="radio"/> 4. java.awt.event
what type of servlets use these methods doget(), dopost(), dohead, dodelete(), dotrace()?	1. generic servlets <input checked="" type="radio"/> 2. http servlets 3. built-in servlets 4. standard servlets

Questions ▾ **Choices** ▾

- which class provides stream to read binary data such as image etc. from the request object?
1. servletInputStream
2. servletOutputStream
3. servletCharStream
4.

Questions ▲ **Choices** ▲

servletbinarystream

Questions	Choices
which methods are used to bind the objects on httpsession instance and get the objects?	<ol style="list-style-type: none">1. only setattribute2. only getattribute3. both setattribute and getattribute4.

Questions ▲ Choices ▲

bindobject and getobject

Questions ▾ Choices ▾

Which of these ways used to communicate from an applet to servlet?

1. only rmi communication
2. only http communication
3. only socket communication
4. rmi, http, and socket communication

Questions ▾ Choices ▾

- which type of servletengine is a server that includes built-in support for servlets?
1. add-on servletengine
 2. embedded servletengine
 3. standalone servletengine
 4. standard serveletengine

Questions ▾ Choices ▾

1. public member
2. private member
3. protected member
- 4.

a class
member
declared
protected
becomes
member of
subclass of
which type?

static member

Questions	Choices
<p>As per NIST cloud reference architecture, which one of the following is/are role of cloud auditor?</p> <p>I) Security audit II) Privacy audit III) Service audit</p> <p>Here a single program is executed by all tasks simultaneously. At any moment in time, tasks can be executing the same or different instructions within the same program. These programs usually have the necessary logic programmed into them to allow different tasks to branch or conditionally execute only those parts of the program they are designed to execute.</p>	<p>1. Only I 2. Only II 3. Both I and II 4. I, II and III</p> <p>1. Single Program Multiple Data (SPMD) 2. Multiple Program Multiple Data (MPMD) 3. Von Neumann Architecture 4. MIMD</p>

Questions ▾ **Choices** ▾

- IAM is one of the cloud security solutions. IAM stands for
1. Integrity and Access Management
 2. Identity and Access Management
 3. Integrity and Authorization Management
 4. Identity and Authorization Management

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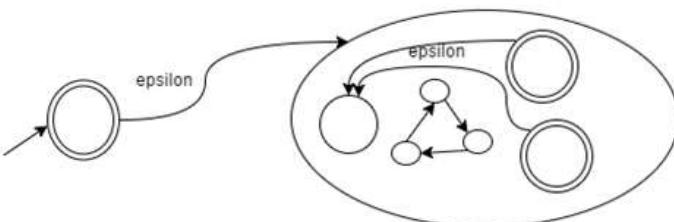
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Questions	Choices
<p>If R represents a regular language, which of the following represents the Venn-diagram most correctly?</p> 	<ol style="list-style-type: none">1. An Irregular Set2. R^*3. R complement4. R reverse
<p>If the instruction, Add R_1, R_2, R_3 is executed in a system which is pipe-lined, then the value of S is (Where S is term of the Basic performance equation)</p>	<ol style="list-style-type: none">1. 32. ~23. ~ 14. 6

Questions	Choices
In a MapReduce programming model, the number of mapper for word counting problem is	<p>1. 3 2. 5 3. 7 4. depends on the data segment</p>
In HDFS architecture, the actual data are stored on the following node	<p>I) Name Node II) Data node III) Slave node</p> <p>1. Only I 2. Both I and II 3. Both I and III 4. Both II and III</p>

Questions**Choices**

Let for $\Sigma = \{0,1\}$ $R = (\Sigma\Sigma\Sigma)^*$, the language of R would be

Scalability refers to a parallel system's (hardware and/or software) ability

1. $\{w \mid w \text{ is a string of odd length}\}$
 - 2.** $\{w \mid w \text{ is a string of length multiple of } 3\}$
 3. $\{w \mid w \text{ is a string of length } 3\}$
 4. $\{w \mid w \text{ is a string of at most length } 3\}$
-
1. To demonstrate a proportionate increase in parallel speedup with the removal of some processors
 - 2.** To demonstrate a proportionate increase in parallel speedup with the addition of more processors
 3. To demonstrate a proportionate decrease in parallel speedup with the addition of more processors
 4. A sequential execution of a program, one statement at a time

Questions	Choices
Synchronous communication operations referred to	<p>1. Involves only those tasks executing a communication operation</p> <p>2. It exists between program statements when the order of statement execution affects the results of the program.</p> <p>3. It refers to the practice of distributing work among tasks so that all tasks are kept busy all of the time. It can be considered as minimization of task idle time.</p> <p>4. Involves many tasks executing a communication operation</p>
Synchronous communications	<p>1. It require some type of “handshaking” between tasks that are sharing dat(A) This can be explicitly structured in code by the programmer, or it may happen at a lower level unknown to the programmer.</p> <p>2. It involves data sharing between more than two tasks, which are often specified as being members in a common group, or collective</p> <p>3. It involves two tasks with one task acting as the sender/producer of data, and the other acting as the receiver/consumer.</p> <p>4. It allows tasks to transfer data independently from one another.</p>

Questions	Choices
<p>Two processors A and B have clock frequencies of 700 Mhz and 900 Mhz respectively. Suppose A can execute an instruction with an average of 3 steps and B can execute with an average of 5 steps. For the execution of the same instruction which processor is faster ?</p>	<p>1. Processor A 2. Processor B 3. Processor A and B 4. Insufficient Information</p>

Questions	Choices
<p>what is the prototype of the default constructor of this class?</p> <pre>public class prototype { }</pre>	<ol style="list-style-type: none"><li data-bbox="1212 182 1437 277">1. prototype()<li data-bbox="1212 277 1437 372">2. prototype(void)<li data-bbox="1212 404 1549 499">3. public prototype(void)<li data-bbox="1212 531 1482 626">4. public prototype()

Questions**Choices**

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Questions	Choices
Which Algorithm is better choice for pipelining?	1. small algorithm 2. hash algorithm 3. merge-sort algorithm 4. quick-sort algorithm
which function is used to perform some action when the object is to be destroyed?	1. finalize() 2. delete() 3. main() 4. deleteAll()

Questions	Choices
which of the following handles the exception when a catch is not used?	1. finally 2. throw handler 3. default handler 4. java run time system
which of the following is a super class of all exception type classes?	1. catchable 2. runtimeexceptions 3. string 4. throwable

Questions	Choices
which of the following keyword is used by calling function to handle exception thrown by called function?	<p>1. throws</p> <p>2. throw</p> <p>3. try</p> <p>4. catch</p>
Which of the following services that need to be negotiated in Service Level Agreements ? I) Logging II) Auditing III) Regulatory compliance	<p>1. only I</p> <p>2. Both I and III</p> <p>3. Both II and III</p> <p>4. I, II and III</p>

Questions	Choices
which of the following statements are incorrect?	1. default constructor is called at the time of declaration of the object if a constructor has not been defined. 2. constructor can be parameterized. 3. finalize() method is called when a object goes out of scope and is no longer needed. 4. finalize() method must be declared protected.
which of these class contains the methods used to write in a file?	1. filestream 2. fileinputstream 3. bufferedoutputstream 4. filebufferstream
which of these exception is thrown in cases when the file specified for writing is not found?	1. ioexception 2. fileexception 3. filenotfoundexception 4. fileinputexception

Questions	Choices
Which of these is a process of writing the state of an object to a byte stream?	<p>1. serialization</p> <p>2. externalization</p> <p>3. file filtering</p> <p>4. object streaming</p>

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Questions	Choices
which of these keywords is used to refer to member of base class from a sub class?	1. upper 2. super 3. this 4. sub
which of these methods are used to read in from file?	1. get() 2. read() 3. scan() 4. readfileinput()

Questions	Choices
which of these methods is used to print stack trace?	1. obtainstacktrace() 2. <input checked="" type="checkbox"/> printstacktrace() 3. getstacktrace() 4. displaystacktrace()
which of these methods return description of an exception?	1. getexception() <input checked="" type="checkbox"/> 2. getmessage() 3. obtaindescription() 4. obtainexception()
which of these values is returned by read() method if end of file (eof) is encountered?	1. 0 2. 1 <input checked="" type="checkbox"/> 3. -1 4. null

Questions	Choices
Which one of the following is not a benefit of virtualization?	<ol style="list-style-type: none"><li data-bbox="1147 184 1596 287">1. Flexible and efficient allocation of resources<li data-bbox="1147 326 1596 430">2. Lowers the cost of IT infrastructure<li data-bbox="1147 430 1596 477">3. Remote access and rapid scalability<li data-bbox="1147 501 1596 572">4. Security risk
Which one of the following is not a MQTT component?	<ol style="list-style-type: none"><li data-bbox="1147 612 1327 683">1. MQTT Client<li data-bbox="1147 707 1327 795">2. MQTT Server<li data-bbox="1147 818 1327 890">3. MQTT Broker<li data-bbox="1147 914 1372 985">4. MQTT Connection
Which one of the following is not applicable for HDFS (Hadoop Distributed File System)	<ol style="list-style-type: none"><li data-bbox="1147 1056 1327 1128">1. Very large files<li data-bbox="1147 1152 1417 1199">2. Streaming data access<li data-bbox="1147 1223 1417 1294">3. Commodity hardware<li data-bbox="1147 1318 1439 1390">4. Low latency data access

Questions	Choices
Which one of the following is not true about full virtualization?	1. unmodified guest OS to be run in isolation 2. completely simulates the underlying hardware 3. fully decouples the guest OS 4. Guest OS completely aware of its virtualization
Which one of the following is the unique challenge of cloud security than the traditional cyber security?	1. Enterprise is responsible for security end-to-end 2. Used individually managed security tools 3. Static resources contain security boundaries 4. Dynamic resources blurred security boundaries

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Questions	Choices
Which one of the following is used to publish/subscribe the message through MQTT protocol?	1. Token 2. Topic 3. Keyword 4. Ticket
Which one of the following takes set of data and converts it into another set of data, where individual elements are broken down into tuples (key/value pairs).	1. Mapper 2. Reducer 3. Shuffler 4. Splitter

Questions	Choices
Which one of the following takes the output from a map as an input and combines those data tuples into a smaller set of tuples?	1. Mapper 2. Reducer 3. Shuffler 4. Merger 1. augmenting path 2. critical path 3. residual path 4. maximum path
A simple acyclic path between source and sink which pass through only positive weighted edges is called	 1. Decision problem 2. optimization problem 3. optimization decision problem 4. Unsolvable problem
Class P is the set of _____ that can be solved in worst-case polynomial time	

Questions	Choices
Floyd Warshall Algorithm can be applied on _____	1. Undirected and unweighted graphs 2. Undirected graphs 3. Directed graphs 4. Acyclic graph <input checked="" type="checkbox"/> 1. always
If a problem is NP-complete there is _____ no polynomial-time algorithm to find an optimal solution	2. approximately 3. most likely 4. very likely
Which of the following is not a branch and bound strategy to generate branches	1. LIFO branch and bound 2. FIFO branch and bound 3. Lowest cost branch and bound 4. Highest cost branch and bound

Questions

Choices

What is the correct sequence to create a database connection?

- i. Import JDBC packages.
- ii. Open a connection to the database.
- iii. Load and register the JDBC driver.
- iv. Execute the statement object and return a query resultset.
- v. Create a statement object to perform a query.
- vi. Close the resultset and statement objects.
- vii. Process the resultset.
- viii. Close the connection.

1. i, ii, iii, v, iv, vii, viii, vi
2. **1, iii, ii, v, iv, vii, vi, viii**
3. ii, i, iii, iv, viii, vii, v, vi
4. i, iii, ii, iv, v, vi, vii, viii

What will be the output of the following Java program?

```

1  class A
2  {
3      int i;
4      int j;
5      A()
6      {
7          i = 1;
8          j = 2;
9      }
10 }
11 class Output
12 {
13     public static void main(String args[])
14     {
15         A obj1 = new A();
16         A obj2 = new A();
17         System.out.print(obj1.equals(obj2));
18     }
19 }
```

**1.
false**

2. true
3. 1
4. Compilation error

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Questions	Choices
<p>What will be the output of the following Java program?</p> <pre>1 abstract class A 2 { 3 int i; 4 abstract void display(); 5 } 6 class B extends A 7 { 8 int j; 9 void display() 10 { 11 System.out.println(j); 12 } 13 } 14 class Abstract_demo 15 { 16 public static void main(String args[]) 17 { 18 B obj = new B(); 19 obj.j=2; 20 obj.display(); 21 } 22 }</pre>	<p>1. 0</p> <p>2. 2</p> <p>3. Runtime Error</p> <p>4. Compilation error</p>

Questions	Choices
When does Exceptions in Java arises in code sequence?	<p>1. Run time</p> <p>2. Compilation time</p> <p>3. Deployment time</p> <p>4. Linking time</p>

Questions	Choices
<p>Let us consider single-link and complete-link hierarchical clustering. In which of these approaches, it is possible for a point to be closer to points in other clusters than the points in its own cluster?</p>	<p>1. It is possible in single-link clustering</p> <p>2. It is possible in complete-link clustering</p> <p>3. Both in single-link and complete-link clustering</p> <p>4. Neither in single-link nor in complete-link values</p>

Questions	Choices
<p>For SVM, which options are correct?</p> <ul style="list-style-type: none">A) Support vectors are data points that are closer to the hyperplane and influence the position and orientation of the hyperplaneB) Support vectors are data points that are far away from the hyperplane and influence the position and orientation of the hyperplaneC) Deleting the support vectors will change the position of the hyperplaneD) Deleting the support vectors won't change the position of the hyperplane	<ol style="list-style-type: none">1. A and B2. <input checked="" type="checkbox"/> A and C3. B and C4. A and D
<p>Which options are true for SVM?</p> <ul style="list-style-type: none">A) The distance of the vectors from the margin is called the hyperplaneB) The loss function that helps minimize the margin is called hinge lossC) SVM can solve the linearly separable data pointsD) SVM can solve the data points that are not linearly separable	<ol style="list-style-type: none">1. A and B2. A and D3. <input checked="" type="checkbox"/> C and D4. C and B

Questions	Choices
	1. Browsing
Which services are not provided by a Server?	2. Resource Sharing 3. Virus Scanning 4. Data Sharing
When a victim is forced to perform an unintended action on a web application they are logged into is called _____ attack	1. Cross-Site Redirect Forgery 2. Cross-Site Request Forgery 3. Request Redirect Forgery 4. Access Redirect Forgery

Questions	Choices
<p>What are the major components of the JDBC?</p>	<ol style="list-style-type: none"><li data-bbox="1145 165 1706 298">1. DriverManager, Driver, Connection, Statement, and ResultSet<li data-bbox="1145 314 1706 447">2. DriverManager, Driver, Connection, and Statement<li data-bbox="1145 463 1706 549">3. DriverManager, Statement, and ResultSet<li data-bbox="1145 564 1706 679">4. DriverManager, Connection, Statement, and ResultSet
<p>Which of the following is the correct to register a JdbcOdbcDriver?</p>	<ol style="list-style-type: none"><li data-bbox="1145 679 1706 828">1. <code>jdbc.odb.JdbcOdbcDriver obj = new sun.jdbc.odb.JdbcOdbcDriver();</code><li data-bbox="1145 844 1706 977">2. <code>odb.JdbcOdbcDriver obj = new sun.odb.JdbcOdbcDriver();</code><li data-bbox="1145 993 1706 1126">3. <code>jdbc.JdbcOdbcDriver obj = new sun.jdbc.JdbcOdbcDriver();</code><li data-bbox="1145 1142 1706 1244">4. <code>jdbc.odb.JdbcOdbc obj = new sun.jdbc.odb.JdbcOdbc();</code>

Questions	Choices
Which of the following method is used to perform DML statements in JDBC?	<ol style="list-style-type: none">1. executeResult()2. executeQuery()3. executeUpdate()4. execute()

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Questions	Choices
Which of the following is not the form type for adding text?	<ol style="list-style-type: none">1. Text input2. Text area3. Password input4. Submit button

Questions	Choices
Form validation traditionally was performed by _____	<ol style="list-style-type: none">1. PHP2. HTML3. JavaScript4. jQuery
The client-side JavaScript asynchronous programming model contains _____	<ol style="list-style-type: none">1. Timers and error handlers2. User interface events3. State change events4. API-specific events
The events that are not triggered directly by user activity are called _____	<ol style="list-style-type: none">1. Device-independent input events2. Device-dependent input events3. User interface events4. State change events

Questions	Choices
The process by which the browser decides which objects to trigger event handlers on is _____	1. a) Event Triggering 2. b) Event Listening 3. c) Event Handling 4. d) Event propagation
The type that specifies what kind of event occurred is _____	1. event type 2. even target 3. both event type and even target 4. interface

Questions	Choices
The word 'document' mainly refers to	<ol style="list-style-type: none"><li data-bbox="1170 160 1695 255">1. Dynamic Information 2 Static Information<li data-bbox="1170 282 1695 377">3. Both Dynamic and Static Information<li data-bbox="1170 388 1695 452">4. Statistics Information
Tomcat is an open source web server that provides a servlet container allowing you to run Java code.	<ol style="list-style-type: none"><li data-bbox="1170 503 1695 598">1. True<li data-bbox="1170 609 1695 704">2. False<li data-bbox="1170 715 1695 810">3. 4. <ol style="list-style-type: none"><li data-bbox="1170 779 1695 872">1. <code>now = new Date();</code><li data-bbox="1170 883 1695 979">2. <code>var now = new Date();</code><li data-bbox="1170 990 1695 1085">3. <code>var now = Date();</code><li data-bbox="1170 1096 1695 1190">4. <code>var now = new Date(current);</code>
What is the code for getting the current time?	

Questions	Choices
Which are the events that have default actions that can be canceled by event handlers?	<ol style="list-style-type: none">1. Submit and form-related events2. Reset and form-related events3. Submit and reset events4. form-related events

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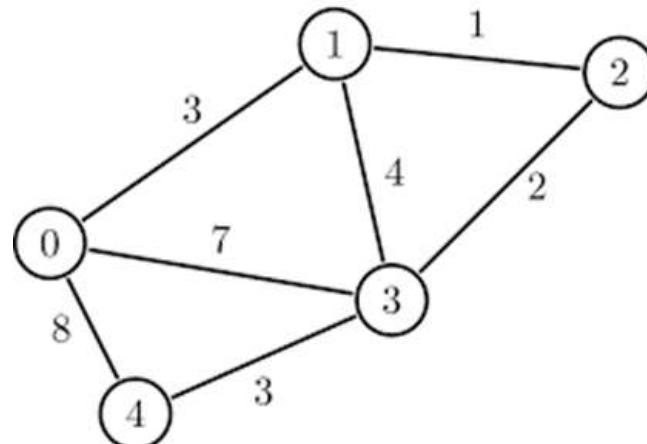
Search:

Questions	Choices
Which of the following is a way of embedding Client-side JavaScript code within HTML documents?	<ol style="list-style-type: none">1. From javascript:encoding2. External file specified by the src attribute of a 'script' tag3. From decoding4. Using internal file src
Which of the following is not a pre-packaged server stack?	<ol style="list-style-type: none">1. WAMP2. XAAMP3. MAMP4. NAMP

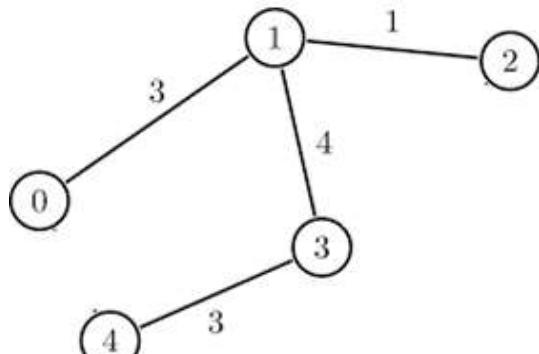
Questions	Choices
Which event is fired when a document and all of its external resources are fully loaded and displayed to the user?	<ol style="list-style-type: none"><li data-bbox="1170 180 1298 255">1. Window<li data-bbox="1170 276 1298 350">2. Load<li data-bbox="1170 371 1298 445">3. Element<li data-bbox="1170 466 1298 541">4. Handler
The importance of software design can be summarized in a single word	<ol style="list-style-type: none"><li data-bbox="1170 593 1298 668">1. accuracy<li data-bbox="1170 688 1298 763">2. complexity<li data-bbox="1170 783 1298 858">3. efficiency<li data-bbox="1170 879 1298 953">4. quality
Which design model is equivalent to the detailed drawings of the access points and external utilities for a house?	<ol style="list-style-type: none"><li data-bbox="1170 1022 1298 1096">1. Architectural design<li data-bbox="1170 1117 1298 1191">2. Component-level design<li data-bbox="1170 1212 1298 1287">3. Data design<li data-bbox="1170 1307 1298 1382">4. Interface design

Questions**Choices**

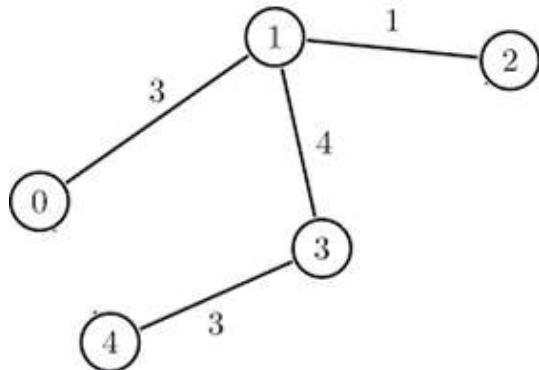
What is the minimal spanning tree of the graph below by applying Prim's algorithm with 0 as the root vertex?



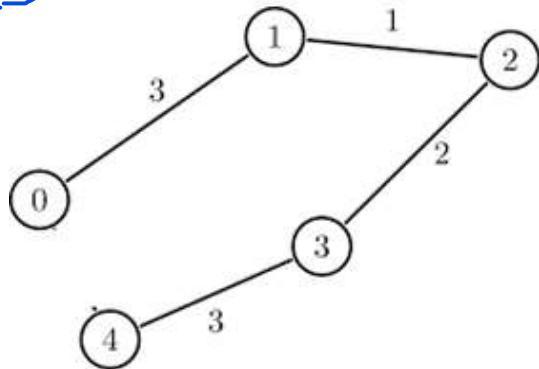
1.



2.



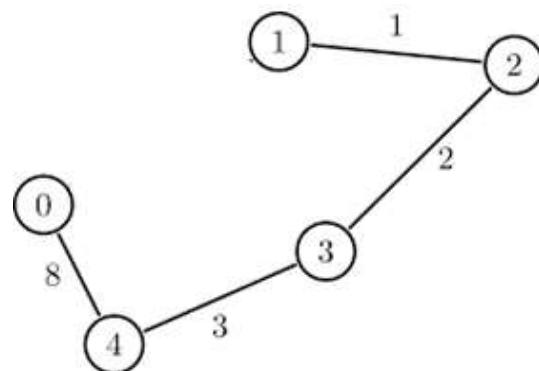
3.



Questions

Choices

4.



1. _____ cryptography is often used to work on lengthier messages.
1. a. Symmetric key
2. a. Asymmetric key
3. a. Public key
4. a. Group key
1. a. network, application
2. a. transport , application
1. a. network, transport
2. a. a link and application

Questions	Choices
1. A protocol involving a prover and a verifier that enables the prover to prove to a verifier without revealing any other information. This is called as _____	1. a. Verification algorithm 2. a. Authentication proof 3. a. E Mail Security 4. a. Zero-Knowledge Proof
1. Digital signature does not provide _____	1. a. Nonrepudiation 2. a. Privacy 3. a. Authentication 4. a. Integrity

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Questions	Choices
1. Hash functions are _____ functions	<p>1. a. One way 2. a. Two way 3. a. Multiple way 4. a. Three way</p>
1. In _____ cryptography everybody has access to everyone's public key	<p>1. a. Symmetric key 2. a. Asymmetric key 3. a. Secret key 4. a. Private key</p>

Questions	Choices
	1. 44
	2. 32
1. In AES algorithm, when you have 10 rounds ,the total number of words may present as round key is _____	3. 64
	4. 16
	1. a. 64 Bytes
1. Maximum possible size of padding bits in MD5	a. 512 Bytes
	3. a. 32 Bytes
	4. a. 128 Bytes

Questions	Choices
	1.
	1
	2.
1. Suppose $P, Q \in E$, where $P = (x_1, y_1)$ and $Q = (x_2, y_2)$, we can consider how many cases of solution in elliptic curve arithmetic	2
	3.
	3
	4.
	4
	1.
	a. Plaintext
	2.
1. The information that gets transformed in encryption is called _____	a. Cipher text
	3.
	a. Parallel text
	4.
	a. Transformed text

Questions	Choices
1. The major advantage of public -key certificates is _____	1. a. Real time access to key authority 2. a. Reduced real time access to key authority 3. a. Increased real time access to key authority 4. a. No real time access to key authority
1. The major security threat to RSA algorithm is _____	1. a. Factoring problem 2. a. Brute Force Attack 3. a. Man-in the middle attack 4. a. Birthday attack

Questions	Choices
1. The major vulnerability of distributing the public key using – public announcement	1. a. Factorization 2. a. Forgery 3. a. Man-in the middle attack 4. a. Birthday attack
1. The process of making relationship between cipher text and key as complex as possible is called as _____	1. a. Diffusion 2. a. Confusion 3. a. Decryption 4. a. Encryption

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Questions	Choices
1. Which of the following algorithm was developed based on the difficulty of finding log base 2 in a cyclic group ?	1. Elliptic curve cryptography 2. ElGamal 3. DES 4. RSA
1. Which of the following is not an objective of network security?	1. Identification 2. Authentication 3. Locking 4. Access control

Questions	Choices
1. Which one of the following algorithm does not generate fixed length digest from an arbitrary-length message?	1. a. Hash algorithm 2. a. HMAC algorithm 3. a. MD5 4. a. RSA
1. Which one of the following is a most insecure hash function?	1. a. Bit by bit XOR 2. a. One bit circular shift 3. a. HMAC 4. a. SHA-1
1. Which one of the following refers to the technique used for verifying the integrity of the message?	1. a. Digital signature 2. a. Decryption algorithm 3. a. Protocol 4. a. Message Digest

Questions	Choices
1. Which authentication methodology will you recommend while mailing an audio file ?	<p>1. S/MIME 2. PGP 3. HMAC 4. Email Security</p>
Generally, which testing is used when shrink-wrapped software products are being established and part of an integration testing?	<p>1. Integration Testing 2. Smoke testing 3. Regression Testing 4. Validation testing</p>

Questions	Choices
In which environment we can performed the Alpha testing?	<ol style="list-style-type: none"><li data-bbox="1170 180 1343 271">1. User's end<li data-bbox="1170 292 1343 382">2. Developer's end<li data-bbox="1170 403 1343 493">3. User's and developer's end<li data-bbox="1170 514 1343 604">4. tester
Which of the following is not part of the Test type?	<ol style="list-style-type: none"><li data-bbox="1170 699 1343 806">1. Function testing<li data-bbox="1170 826 1343 917">2. System testing<li data-bbox="1170 937 1343 1028">3. Statement testing<li data-bbox="1170 1049 1343 1139">4. Database testing

Questions	Choices
Which one of the following assertions concerning code inspection and code walk-through is true?	<p>1. Code inspection is carried out once the code has been unit tested</p> <p>2. Code inspection and code walk-through are synonyms</p> <p>3. Adherence to coding standards is checked during code inspection</p> <p>4. Code walk-through is usually carried out by an independent test team</p>

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Questions	Choices
<p>How many bits are required in the operation code? If a Computer uses a memory unit with 1 M words of 32 bits each. A binary instruction code is stored in one word of memory. The instruction has four parts: an indirect bit, an operation code, a register code part to specify one of 64 registers, and an address part</p>	<p>1. 7 2. 6 3. 20 4. 5</p>

Questions	Choices
An 8-bit serial-in/serial-out shift register is used with a clock frequency of 100 kHz. What is the time delay between the serial input and the Q5 output?	1. 10 micro sec 2. 50 micro sec 3. 60 micro sec 4. 40 micro sec
Consider a system with an 80% hit ratio, 50 Nano-seconds times to search the associative registers, 750 Nano-seconds times to access memory. What is the effective memory access time?	1. 230ns 2. 950ns 3. 640ns 4. 310ns

Questions	Choices
	1. 16
	2. 15
In a six-stage pipeline assuming that there are no branch instructions. If we want to execute 15 instructions. What is the time required to execute these instructions?	3. 21
	4. 20
Which of the following is true about DMA?	1. DMA is an approach of performing data transfers in bulk between memory and the external device without the intervention of the processor.
	2. The DMA controller acts as a processor for DMA transfers and does not overlooks the entire process.
	3. The DMA controller has 6 registers.
	4. The DMA has separate PSW

Questions	Choices
Parallel Overhead is	<p>1. Observed speedup of a code which has been parallelized, defined as: wall-clock time of serial execution and wall-clock time of parallel execution</p> <p>2. The amount of time required to coordinate parallel tasks. It includes factors such as: Task start-up time, Synchronizations, Data communications</p> <p>3. Refers to the hardware that comprises a given parallel system - having many processors</p> <p>4. Refers to the hardware that comprises a given parallel system - having single processors</p>
The CPU activates the output to inform the external DMA that the buses are in the high-impedance state.	<p>1. Bus request</p> <p>2. Bus Grant</p> <p>3. Cycle stealing</p> <p>4. Bus relinquishes</p>

Questions	Choices
	1. 7
How many bits are required in the operation code? If a Computer uses a memory unit with 1 M words of 32 bits each. A binary instruction code is stored in one word of memory. The instruction has four parts: an indirect bit, an operation code, a register code part to specify one of 64 registers, and an address part	2. 6 3. 20 4. 5
1. A mod-2 counter followed by a mod-5 counter is	1. Same as a mode-5 counter followed by a mod- 2 counter 2. A decade counter 3. A mod-7 counter 4. Ripple carry Counter
1. A ring counter is same as	1. Up-down counter 2. Parallel counter 3. Shift register 4. Ripple carry counter

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Comprehensive Question Preview

Search:

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Questions	Choices
1. In which of the following adder circuits, the carry look ripple delay is eliminated ?	1. Half Adder 2. Full Adder 3. Parallel Adder 4. Carry-Look-Ahead Adder

Questions	Choices
1. Odd parity of word can be conveniently tested by	1. OR Gate 2. AND Gate 3. NOR Gate 4. XOR Gate
1. The number of flip-flops required in a modulo N counter is	1. $\log_2(N) + 1$ 2. $\log_2(N-1)$ 3. $\log_2(N)$ 4. $N \log_2(N)$

Questions	Choices
1. The number of full and half-adders required to add 16-bit numbers is	1. 8 half-adders, 8 full-adders 2. 1 half-adder, 15 full-adders 3. 16 half-adders, 0 full-adders 4. 4 half-adders, 12 full-adders
1. The ring counter is analogous to	1. Toggle switch 2. Latch 3. Stepping Switch 4. JK Flip Flop
1. The time required for a gate or inverter to change its state is called	1. Rise time 2. Decay time 3. Propagation time 4. Charging time

Questions	Choices
	1. One
1. What is the minimum number of two-input NAND gates used to perform the function of two input OR gate?	2. Two 3. Three 4. Four
	1. Propagation delay is the time required for a gate to change its state
1. Which of the following statements is wrong ?	2. Noise immunity is the amount of noise which can be applied to the input of a gate without causing the gate to change state 3. Fan-in of a gate is always equal to fan-out of the same gate 4. Operating speed is the maximum frequency at which digital data can be applied to a gate

Questions	Choices
1. Which one of the following set of gates are best suited for 'parity' checking and 'parity' generation.	1. AND, OR, NOT gates 2. EX-NOR or EX-OR gates 3. NAND gates 4. NOR gates
Choose an action that cannot be performed in Airline Industry using Data Science	1. Foresee Flight Delays 2. Promotional Offers for Customers 3. Charter a flight despite bad weather 4. Route Planning

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Comprehensive Question Preview

Search:

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Questions	Choices
All the following tools are used for process descriptions except:	<p>1. Data dictionaries</p> <p>2. Decision tables</p> <p>3. Structured English</p> <p>4. Pseudocode</p>
Build & Fix Model is most appropriate for implementing programming exercises ofLOC (Line of Code)	<p>1. 100-200</p> <p>2. 200-400</p> <p>3. 400-1000</p> <p>4. above 1000</p>

Questions**Choices**

CMM model in Software Engineering is a technique of

1. Develop the software.
2. Improve the software process.
3. Improve the testing process.
4. Identifying the errors during maintenance.

How many characteristics does Value Adjustment Factor(VAF) in Function Point Analysis have?

1. 11
2. 12
3. 13
4. 14

The model remains operative until the software is retired

1. Waterfall
2. Spiral
3. Incremental
4. Prototyping

Questions	Choices
A simple approach that is efficient when it works but does not always work is	1. divide-and-conquer 2. brute-force 3. greedy 4. dynamic-programming
Assuming P \neq NP, which of the following is true	1. NP-complete = NP 2. NP-complete intersection P = empty 3. NP-hard = NP 4. P = NP-complete
Both FIFO branch and bound strategy and backtracking leads to depth first search	1. True 2. False 3. NIL 4. NIL

Questions	Choices
Choose the correct statement from the following If class P is not equal to class NP	1. branch and bound is more efficient than backtracking 2. branch and bound is not suitable where a greedy algorithm is not applicable 3. branch and bound divides a problem into at least 2 new restricted sub problems 4. backtracking divides a problem into at least 2 new restricted sub problems 1. There can be a polynomial time algorithm for 3SAT 2. There can be no polynomial algorithm for 3SAT 3. 3SAT is not polynomial time reducible to Clique 4. Clique is not polynomial time reducible to 3SAT
Showing 1 to 10 of 10 entries	Previous <input type="button" value="1"/> Next

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Comprehensive Question Preview

Search:

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Questions	Choices
In how many directions do queens attack each other	1. 1 2. 2 3. 3 4. 4
In what manner is a state-space tree for a backtracking algorithm constructed	1. Depth-first search 2. Breadth-first search 3. Twice around the tree 4. Nearest neighbor first

Questions	Choices
Minimum number of unique colors required for vertex coloring of a graph is called	1. vertex matching 2. chromatic index 3. chromatic number 4. color number
The approach to algorithm design for optimization problems that makes direct use of the fact that the most apparent next component of a solution is part of the optimal solution is	1. divide and conquer 2. greedy 3. brute force 4. dynamic programming
What happens when the backtracking algorithm reaches a complete solution	1. It backtracks to the root 2. It continues searching for other possible solutions 3. It traverses from a different route 4. Recursively traverses through the same route

Questions	Choices
What happens when the value of k is 0 in the Floyd Warshall Algorithm	1. 1 intermediate vertex 2. 0 intermediate vertex 3. N intermediate vertices 4. N-1 intermediate vertices 1. A condition where any two vertices having a common edge should not have same color 2. A condition where any two vertices having a common edge should always have same color 3. A condition where all vertices should have a different color 4. A condition where all vertices should have same color
What is vertex coloring of a graph	

Questions	Choices
Which data structure is used for implementing a LIFO branch and bound strategy	1. Stack 2. Queue 3. Array 4. Linked list
Which of the following can traverse the state space tree only in DFS manner	1. branch and bound 2. dynamic programming 3. greedy algorithm 4. backtracking

Questions	Choices
Which of the following is true about NP-Complete and NP-Hard problems Ans : 1,2,3	1. If we want to prove that a problem X is NP-Hard we take a known NP-Hard problem and reduce Y to X 2. The first problem that was proved as NP-complete was the circuit satisfiability problem 3. NP-complete is a subset of NP Hard 4. NP hard

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Questions	Choices
Which of the following methods can be used to solve n-queen's problem	<ol style="list-style-type: none">1. greedy algorithm2. divide and conquer3. iterative improvement4. backtracking
Which of the problems cannot be solved by backtracking method	<ol style="list-style-type: none">1. n-queen problem2. subset sum problem3. hamiltonian circuit problem4. travelling salesman problem

Questions	Choices
Which one of the following is an application of the backtracking algorithm	1. Finding the shortest path 2. Finding the efficient quantity to shop 3. Ludo 4. Crossword
You are given a knapsack that can carry a maximum weight of 60. There are 4 items with weights [20, 30, 40, 70] and values [70, 80, 90, 200]. What is the maximum value of the items you can carry using the knapsack	1. 160 2. 200 3. 170 4. 90

Questions	Choices
<p>Given set of tasks with length of instructions and set of VM with speed. Which one of the following is true about Max-Min task scheduling algorithm?</p>	<ol style="list-style-type: none"><li data-bbox="1170 184 1682 303">1. Maximum length instruction task and VM with minimum speed<li data-bbox="1170 342 1682 445">2. Maximum length instruction task and VM with maximum speed<li data-bbox="1170 469 1682 588">3. Minimum instruction length task and VM with maximum speed<li data-bbox="1170 612 1682 731">4. Minimum instruction length task and VM with minimum speed
<p>Which one of the following is not a characteristic of dominant resource fairness algorithm?</p>	<ol style="list-style-type: none"><li data-bbox="1170 787 1545 842">1. Fair for multi tenant system<li data-bbox="1170 882 1581 937">2. Tenant cannot benefit by lying<li data-bbox="1170 977 1608 1096">3. Tenant cannot envy another tenant's allocation<li data-bbox="1170 1136 1641 1255">4. Not suitable for multi-resource requirement

Questions	Choices
Which one of the following is not true about virtual machine as compared to containers?	<ol style="list-style-type: none">1. each VM has its own OS2. all containers share the same kernel of host machine3. VM snapshots are used occasionally4. boot up time is faster than containers
Consider the following two statements: $S_1 - \{0^{2n} \mid n \geq 1\}$ is regular language. $S_2 - \{0^m 1^n 0^{m+n} \mid m \geq 1 \text{ and } n \geq 1\}$ is a regular language	<ol style="list-style-type: none">1. Only S_1 is correct2. Only S_2 is correct3. Both S_1 and S_2 are correct4. Both S_1 and S_2 are wrong

Questions	Choices
	1. i) $E \rightarrow pE'$ ii) $E' \rightarrow pqT / \in$ iii) $T \rightarrow pqrF / \in$ iv) $F \rightarrow pqr / \in$
Consider the grammar $E \rightarrow p / pq / pqr / pqr$. Find the left factoring	2. i) $E \rightarrow pE'$ ii) $E' \rightarrow qrT / \in$ iii) $T \rightarrow rsF / \in$ iv) $F \rightarrow sp / \in$
	3. i) $E \rightarrow pE'$ ii) $E' \rightarrow qT / \in$ iii) $T \rightarrow sF / \in$ iv) $F \rightarrow r / \in$
	4. i) $E \rightarrow pE'$ ii) $E' \rightarrow qT / \in$ iii) $T \rightarrow rF / \in$ iv) $F \rightarrow s / \in$

Questions	Choices
	1. xyx^*y^*yyx
Consider the RE for all strings starts with xy and ends with yyx is.	2. $xy(xy)^*yyx$
	3. $xy(x+y)^*yyx$
	4. xyx^*y^*xyyyx

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Comprehensive Question Preview

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Questions	Choices
	1. $(0+1)^*(00+11)(0+1)^*$
Find the regular expressions	2. $(0+1)^*(0+11)^*(0+1)^*$
	3. $(0+1)^*(00+110)(0+1)^*$
	4. $(0+1)(00+11)(0+1)^*$

Questions

Choices

The set of all strings over $\Sigma = \{a,b\}$ in which all strings that starts with and ends with same letter is

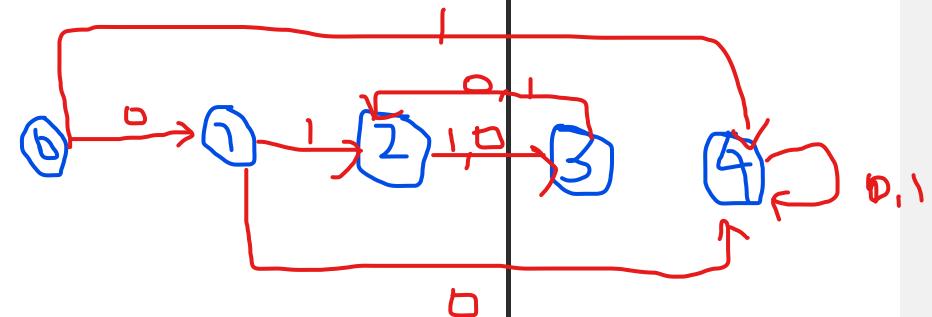
1. $[a(a+b)^*b + b(a+b)^*a]$
2. $[a(a+b)^*a + b(a+b)^*b]$
3. $a(a+b)^*a$
4. $b(a+b)^*b$

Which of the following substring will the following notation result?

δ	0	1
Q0	Q1	Q4
Q1	Q4	Q2
Q2	Q3	Q3
Q3	Q2	Q2
Q4	Q4	Q4

δ	0	1
Q0	Q1	Q4
Q1	Q4	Q2
Q2	Q3	Q3
Q3	Q2	Q2
Q4	Q4	Q4

1. 0101011
2. 0101010
3. 010100
4. 100001



Questions	Choices																																																
Which of the following are regular sets?	<p>1. I and IV</p>																																																
I. $\{ a^n b^2 m \mid n \geq 0, m \geq 0 \}$ II. $\{ a^n b^m \mid n = 2m \}$ III. $\{ a^n b^m \mid n \neq m \}$ IV. $\{ xy \mid x, y \in \{a, b\}^* \}$	<p>2. I and III</p> <p>3. I only</p> <p>4. IV only</p>																																																
Given Language: $L = \{ x \in \Sigma^* \mid x \text{ has a substring 'aa' in the production} \}$. Which of the corresponding representation noteate the same?	<p>1.</p> <table border="1"> <thead> <tr> <th>States-Transitions</th> <th>b</th> <th>b</th> </tr> </thead> <tbody> <tr> <td>Q0</td> <td>Q2</td> <td>Q2</td> </tr> <tr> <td>Q1</td> <td>Q0</td> <td>Q0</td> </tr> <tr> <td>Q2</td> <td>Q1</td> <td>Q2</td> </tr> </tbody> </table> <p>2.</p> <table border="1"> <thead> <tr> <th>States-Transitions</th> <th>b</th> <th>b</th> </tr> </thead> <tbody> <tr> <td>Q0</td> <td>Q2</td> <td>Q2</td> </tr> <tr> <td>Q1</td> <td>Q0</td> <td>Q0</td> </tr> <tr> <td>Q2</td> <td>Q1</td> <td>Q2</td> </tr> </tbody> </table> <p>3.</p> <table border="1"> <thead> <tr> <th>States-Transitions</th> <th>a</th> <th>a</th> </tr> </thead> <tbody> <tr> <td>Q0</td> <td>Q1</td> <td>Q1</td> </tr> <tr> <td>Q1</td> <td>Q2</td> <td>Q0</td> </tr> <tr> <td>Q2</td> <td>Q2</td> <td>Q2</td> </tr> </tbody> </table> <p>4.</p> <table border="1"> <thead> <tr> <th>States-Transitions</th> <th>b</th> <th>a</th> </tr> </thead> <tbody> <tr> <td>Q0</td> <td>Q1</td> <td>Q2</td> </tr> <tr> <td>Q1</td> <td>Q2</td> <td>Q0</td> </tr> <tr> <td>Q2</td> <td>Q2</td> <td>Q2</td> </tr> </tbody> </table>	States-Transitions	b	b	Q0	Q2	Q2	Q1	Q0	Q0	Q2	Q1	Q2	States-Transitions	b	b	Q0	Q2	Q2	Q1	Q0	Q0	Q2	Q1	Q2	States-Transitions	a	a	Q0	Q1	Q1	Q1	Q2	Q0	Q2	Q2	Q2	States-Transitions	b	a	Q0	Q1	Q2	Q1	Q2	Q0	Q2	Q2	Q2
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Q0	Q2	Q2																																															
Q1	Q0	Q0																																															
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Q0	Q1	Q2																																															
Q1	Q2	Q0																																															
Q2	Q2	Q2																																															

Questions	Choices
What is the normal order of activities in which traditional software testing is organized? (a) Integration Testing (b) System Testing (c) Unit Testing (d) Validation	1. 1 2. 2
Code :	
(1) (c), (a), (b), (d)	3. 3
(2) (c), (a), (d), (b)	4. 4
(3) (d), (c), (b), (a)	
(4) (b), (d), (a), (c)	

Questions	Choices
	<p>1. Poor Data Quality</p> <p>2. Inadequate Infrastructure</p> <p>3. Lack of skilled resources</p> <p>4. None of these</p>
The most common issue when using Machine Learning is _____	

Questions	Choices
How does one focus the attention of JavaScript on a specific section of an HTML page?	1. hover() 2. focus() 3. on() 4. focuson()
How may information be retrieved from a ResultSet?	1. By invoking the method get(..., String type) on the ResultSet, where type is the database type 2. By invoking the method get(..., Type type) on the ResultSet, where Type is an object which represents a database type 3. By invoking the method getValue(...), and cast the result to the desired Java type. 4. By invoking the special getter methods on the ResultSet: getString(...), getBoolean (...), getBlob(...),...

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Questions	Choices
How Servers are different from Desktop Computers?	<ol style="list-style-type: none">1. Scalability2. E-Mail3. Backup drives4. Memory
In order to ensure that a data set is valid, which function should be called?	<ol style="list-style-type: none">1. validate()2. valid()3. validation()4. no predefined function for data validation

Questions	Choices
In URL, <code>http://www.mysite.in/academics/index.html</code> , which component identifies the path of a Web page?	1. HTTP 2. www 3. /index.html 4. /index1.php
Upon encountering empty statements, what does the Javascript Interpreter do?	1. Throws an error 2. Ignores the statements 3. Gives a warning 4. No Warning
What kind of driver directly transforms JDBC calls into the network protocol utilised by the database management system?	1. Type 1 driver 2. Type 2 driver 3. Type 3 driver 4. Type 4 driver

Questions	Choices
What services is not a provided by Webservers?	<ol style="list-style-type: none"><li data-bbox="1298 184 1551 255">1. Serving Web Pages<li data-bbox="1298 279 1675 350">2. Running Gateway Programs<li data-bbox="1298 374 1545 445">3. Resource Sharing<li data-bbox="1298 469 1590 541">4. Server Side Scripting
What would happen if the client's data had been inaccurate?	<ol style="list-style-type: none"><li data-bbox="1298 612 1567 683">1. Sends back the data<li data-bbox="1298 707 1581 779">2. Waits for correction<li data-bbox="1298 803 1702 906">3. Sends back the data and Waits for correction<li data-bbox="1298 929 1635 1001">4. Returns the data instantly
Where in an HTML document is the correct place to refer to an external style sheet?	<ol style="list-style-type: none"><li data-bbox="1298 1072 1664 1144">1. At the end of the document<li data-bbox="1298 1168 1590 1239">2. In the <head> section<li data-bbox="1298 1263 1657 1334">3. At the top of the document<li data-bbox="1298 1358 1596 1429">4. In the <body> section

Questions	Choices
Which of the following functions as a browser component and is automatically loaded?	<ol style="list-style-type: none">1. Add-ons2. Plug-ins3. Utilities4. Widgets
Which of the following is not a server stack that is prepackaged?	<ol style="list-style-type: none">1. WAMP2. XAAMP3. MAMP4. NAMP

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Questions	Choices
Which of the following methods is used to access HTML elements using Javascript?	<ol style="list-style-type: none">1. getElementbyId()2. getElementsByClassName()3. getElementById() and getElementsByClassName()4. getElementsByClass()
Which one is true? <pre>const bird = { size: 'small', }; const mouse = { name: 'Mickey', small: true, };</pre>	<ol style="list-style-type: none">1. mouse[bird["size"]] is not valid2. mouse.bird.size is not valid3. mouse[bird.size] is not valid4. mouse[bird[size]] is valid

Questions	Choices
Which section does the form validation take place in?	<p>1. Client</p> <p>2. Server</p> <p>3. Both Client and Server</p> <p>4. User side</p>
In SVM, these functions take a lower dimensional input space and transform it to a higher dimensional space.	<p>1. Kernels</p> <p>2. Vector</p> <p>3. Support Vector</p> <p>4. Hyperplane</p>

Questions	Choices
Real-Time decisions, Game AI, Learning Tasks, Skill Acquisition, and Robot Navigation are applications of which of the following	<ol style="list-style-type: none">1. Supervised Learning: Classification2. Reinforcement Learning3. Unsupervised Learning: Clustering4. Unsupervised Learning: Regression
Support vector machines is _____	<ol style="list-style-type: none">1. Classification learning2. Unsupervised Machine Learning3. Supervised Machine Learning4. Reinforcement learning

Questions**Choices**

The SVM's are less effective when

1.
The data is linearly separable

2.
The data is clean and ready to use

3.
The data is noisy and contains overlapping points

4.
The data is linearly separable and clean.

Which of the following is a not numerical function in the various function representation of Machine Learning?

1.
Neural Network

2.
Support Vector Machines

3.
Case-based

4.
Linear Regression

Questions	Choices
	1.
	Date
	2.
11<input type="month"> creates a widget to display and pick a month with a _____	Year
	3.
	Day
	4.
	Time

Questions	Choices
	1.
	select
	2.
11 On the <optgroup> element, the value of the _____ attribute is displayed before the values of the nested options.	option
	3.
	label
	4.
	text

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Questions	Choices
	1.
	contact information
	2.
11 Footer element generally won't contain _____ information.	copyright information
	3.
	the author of the document
	4.
	blog post

Questions**Choices**

11 To restrict a website visitor from manually resizing the frame, _____ attribute is set.

1.

noresize

2.

notresize

3.

resize

4.

nonresize

Questions	Choices
	1.
	<sect>
	2.
11 A page can be split into sections like Introduction, Contact Information, Details etc and each of these sections can be in a different _____ tag.	<section>
	3.
	<select>
	4.
	<heading>

Questions	Choices
	1.
	Optional
11<figcaption> tag is	2.
	Mandatory
	3.
	No such tag
	4.
	Obsolete

Questions	Choices
The 2's complement representation of 12 is A.	<p>1. 01100</p> <p>2. 00100</p> <p>3. 10100</p> <p>4. 01101</p>
Supervised learning and unsupervised clustering both require which is correct according to the statement.	<p>1. output attribute</p> <p>2. hidden attribute</p> <p>3. input attribute.</p> <p>4. categorical attribute</p>

Questions	Choices
Supervised learning differs from unsupervised clustering in that supervised learning requires	<ol style="list-style-type: none"><li data-bbox="1147 184 1484 255">1. at least one input attribute.<li data-bbox="1147 279 1563 350">2. input attributes to be categorical.<li data-bbox="1147 374 1507 445">3. at least one output attribute.<li data-bbox="1147 549 1585 620">4. output attributes to be categorical.
This unsupervised clustering algorithm terminates when mean values computed for the current iteration of the algorithm are identical to the computed mean values for the previous iteration.	<ol style="list-style-type: none"><li data-bbox="1147 818 1462 763">1. agglomerative clustering<li data-bbox="1147 850 1417 922">2. conceptual clustering<li data-bbox="1147 1025 1394 1096">3. K-Means clustering<li data-bbox="1147 1199 1473 1255">4. expectation maximization

Questions	Choices
Which of the following can only be used when training data are linearly separable?	1. linear logistic regression 2. linear hard-margin svm 3. linear soft margin svm 4. parzen windows
Which of the following clustering algorithm merges and splits nodes to help modify nonoptimal partitions?	1. K-Means clustering 2. Conceptual clustering 3. Agglomerative clustering 4. All of these

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Questions	Choices
Which of the following is not a supervised learning?	<p>1. PCA</p> <p>2. Naive Bayesian</p> <p>3. Linear Regression</p> <p>4. Decision Tree</p>

Questions**Choices**

Which of the following is true regarding an SVM?

1.

For two dimensional data points, the separating hyperplane learnt by a linear SVM will be a straight line.

2.

In theory, a Gaussian kernel SVM cannot model any complex separating hyperplane.

3.

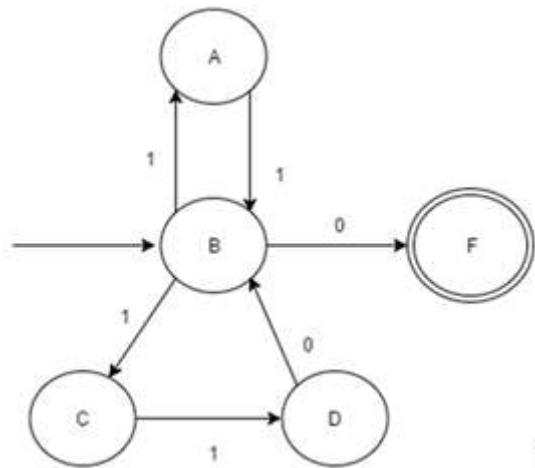
For every kernel function used in a SVM, one can obtain an equivalent closed form basis expansion

4.

Overfitting in an SVM is not a function of number of support vectors.

Questions**Choices**

Which of the following does the given NFA represent?



1.
 $\{11, 101\}^* \{01\}$

-
2.
 $\{110, 01\}^* \{11\}$

3.
 $\{11, 110\}^* \{0\}$
-

4.
 $\{00, 110\}^* \{1\}$

Questions

Choices

Which of these is a regular set?

- I. $\{a^n b^{2m} \mid n \geq 0, m \geq 0\}$
- II. $\{a^n b^m \mid n = 2m\}$
- III. $\{a^n b^m \mid n \neq m\}$
- IV. $\{x y z \mid x, y \in \{a, b\}^*\}$

1.

I

2.

IV

3.

I and III

4.

I and IV

A computer uses a memory unit with 256K words of 32 bits each. A binary instruction code is stored in one word of memory. The instruction has four parts: an indirect bit, an op-code, a register code to specify one of 64 registers, and an address part. Which of the following is the number of bits in the op-code, register code and address part?

1.

7, 7, 18

2.

18, 7, 7

3.

6, 7, 18

4.

7, 6, 18

Questions	Choices
A processor has 250 distinct instructions and 80 general-purpose registers. A 32-bit instruction word has one op-code, two register operands, and one immediate data operand. The number of bits available for the immediate data field is-----.	1. 9 2. 8 3. 3. 10 4. 11
A processor has 58 distinct instructions and 28 general-purpose registers. A 32-bit instruction word has one op-code, two register operands, and one immediate data operand. The number of bits available for the immediate data field is-----.	1. 14 2. 8 3. 12 4. 4. 16

Questions	Choices
Consider the following, 1. Op-code 2. Source address 3. Destination address 4. Next instruction address	1. 1, 2, and 3 only 2. 1, 2, and 4 only 3. 1 and 3 only 4. 1, 2, 3, and 4
Which of the above are typical elements of a machine instruction?	
In instruction format, the address of any data location is said to be---	1. Logical code 2. Operand 3. Function code 4. Instruction code

Questions	Choices
The operation of instruction's carried out by----	1. Fetch cycle 2. Decode cycle 3. Execution cycle 4. Instruction program

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Questions	Choices
The size of instruction in a computer is 16 bits. Each instruction has three operands and it follows register direct addressing modes. The maximum number of op-codes that this processor can have is-----	<ul style="list-style-type: none">1.42.83. 3.16 164.32

Questions	Choices
A CPU has 12 registers and uses 6 addressing modes. RAM is 64K X 32. What is the maximum size of the opcode field if the instruction has a register operand and a memory address operand?	1. 8 2. 9 3. 10 4. 11
1. The term <i>factorization</i> in cryptography denotes _____	1. a. Factoring a prime number 2. a. Factoring the product of prime numbers 3. a. Dividing a prime number by another prime number 4. a. Dividing the product of prime number with a fixed integer

Questions	Choices
	1. a. Privacy 2. a. Authentication 3. a. Key exchange 4. a. Integrity
1. One of the following services is not provided by a symmetric key cryptosystem	
	1. a. 32 Bits 2. a. 32 Bytes 3. a. 64 Bits 4. a. 64 Bytes
1. The DES algorithm has a key length of _____	
	1. a. Masquerade 2. a. Virtualization 3. a. Active attack 4. a. Passive attack
1. When a system/user/entity tries to behave like a different one, it is called as _____	

Questions	Choices
Choose preemptive scheduling from the options below:	<p>1.</p> <p>a) Round Robin Scheduling algorithm</p> <p>2.</p> <p>a) FCFS Scheduling algorithm</p> <p>3.</p> <p>a) SJF Scheduling algorithm</p> <p>4.</p> <p>a) Network Scheduling algorithm</p>
Banker's algorithm is used ...	<p>1.</p> <p>a) To avoid deadlock</p> <p>2.</p> <p>a) To deadlock recovery</p> <p>3.</p> <p>a) To solve the deadlock</p> <p>4.</p> <p>a) To solve mutual exclusion</p>

Questions	Choices
Belady's anomaly affects	1. a) LRU page replacement algorithm 2. a) FIFO page replacement algorithm 3. a) Both of above 4. a) Optimal Page Replacement page replacement algorithm
Buffer is a _____.	1. a) Permanent area 2. a) Temporary area b) 3. Small area 4. a) Large area

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Questions	Choices
<p>1.</p> <p>a) 12</p> <p>Consider a set of four processes with arrival and burst times of 1, 2, 3, 4, and 2, 4, 6, 7, respectively. Calculate the average waiting time if the CPU scheduling policy is Ljf preemptive.</p>	<p>2.</p> <p>a) 11.25</p> <p>3.</p> <p>a) 12.25</p> <p>4.</p> <p>a) 9</p>

Questions	Choices
Consider a virtual memory system with FIFO page replacement policy. For an arbitrary page access pattern, increasing the number of page frames in main memory will	1. always decrease the number of page faults 2. always increase the number of page faults 3. sometimes increase the number of page faults 4. a) never affect the number of page faults
Consider the virtual page reference string 1, 2, 3, 2, 4, 1, 3, 2, 4, 1 On a demand paged virtual memory system running on a computer system that main memory size of 3 pages frames which are initially empty. Let LRU, FIFO and OPTIMAL denote the number of page faults under the corresponding page replacements policy. Then	1. OPTIMAL < LRU < FIFO 2. OPTIMAL < FIFO < LRU 3. OPTIMAL = LRU 4. a) OPTIMAL = FIFO

Questions	Choices
Consider three processes with process ID 1, 2, and 3 and computing burst time units of 2, 4, and 8 respectively. Every process arrives at the same time. Consider the scheduling algorithm in the order of the longest remaining time first (LRTF). If there is a tie in LRTF, we will prioritize the process with the highest process ID. What is the turn around time of P1, P2 and P3 respectively?	1. a) 11, 12 and 13 2. a) 12, 13 and 14 3. a) 14, 13 and 12 4. a) 13, 12, 14
For FIFO page replacement policy:	1. a) With increasing the page frames, page faults decreases always. 2. a) Page faults increases always with increasing the page frames. 3. Page faults not affected with increasing the page frames. 4. a) With increasing the page frames, page faults increases sometime.

Questions	Choices
If the quantum time of round robin algorithm is very large, then it is equivalent to:	<p>1.</p> <p>a) First in first out</p> <p>2.</p> <p>a) Shortest Job Next</p> <p>3.</p> <p>a) Lottery scheduling</p> <p>4.</p> <p>a) Shortest Remaining Time First (SRTF)</p> <p>1.</p> <p>a) the large amount of internal fragmentation</p> <p>2.</p> <p>the large amount of external fragmentation</p> <p>3.</p> <p>the large memory overhead in maintaining page tables</p> <p>4.</p> <p>a) the large computation overhead in the translation process</p>
In a system with 32 bit virtual addresses and 1 KB page size, use of one-level page tables for virtual to physical address translation is not practical because of	

Questions	Choices
Non-preemptive scheduling algorithms include which of the following?	<p>1. a) First-In First-Out 2. a) Round Robin 3. a) Multilevel Queue Scheduling with Feedback 4. a) Multilevel Queue Scheduling</p>
Round robin is a	<p>1. Kind of magnetic drum 2. Memory allocation policy 3. Process scheduling policy 4. Process synchronization policy</p>

Questions	Choices
<p>The command interpreter is also known as</p> <p>1. a) prompt 2. a) kernel 3. a) shell 4. a) command</p>	

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NOTE - questions marked in blue ==> doubt (but found in GPT,BARD and bing)

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Questions	Choices
The FCFS algorithm is particularly troublesome for _____	<ol style="list-style-type: none">1. operating systems2. multiprocessor systems3. time sharing systems4. multiprogramming systems
The process of assigning load addresses to the various parts of the program and adjusting the code and date in the program to reflect the assigned addresses is called	<ol style="list-style-type: none">1. a) Assembly2. Parsing3. a) Relocation4. Symbol resolution

Questions	Choices
Thrashing occurs when	<ol style="list-style-type: none">1.a) When a page fault occurs2.a) Processes on system frequently access pages not memory3.Processes on system are in running state4.a) Processes on system are in waiting state
Virtual memory is	<ol style="list-style-type: none">1.a) Large secondary memory2.Large main memory3.a) Illusion of large main memory4.a) Main memory

Questions	Choices
What is the meaning of Booting in the operating system?	<ol style="list-style-type: none">1.a) Restarting computer2.a) Install the program3.a) To scan4.a) To turn off <ol style="list-style-type: none">1.a) The page is present in memory2.The deadlock occurs3.a) The page does not present in memory4.a) The buffering occurs
When does page fault occur?	

Questions	Choices
Which is the Linux operating system?	1. a) Private operating system 2. a) Windows operating system 3. a) Open-source operating system 4. a) Network Operating System
Which of the following is major part of time taken when accessing data on the disk?	1. a) Settle time 2. a) Rotational latency 3. Seek time 4. a) Waiting time

Questions	Choices
Which of the following is not a form of memory?	1. instruction cache 2. a) instruction register 3. instruction opcode 4. a) translation lookaside buffer
Which of the following is not an operating system?	1. a) Windows 2. a) Linux 3. a) Oracle 4. a) DOS

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Questions	Choices
Which of the following mechanisms is a locking mechanism?	<ul style="list-style-type: none">1.a) Semaphore2.a) PCB3.a) Mutex4.a) Binary Semaphore

Questions	Choices
Which of the following scheduling reduces process flow time?	1. a) FCFS 2. a) LIFO 3. a) SJF 4. a) Round-robin
Which one of the following is NOT shared by the threads of the same process	1. a) Stack 2. a) Address Space 3. File Descriptor Table 4. a) Message Queue

Questions**Choices**

Which program runs first after booting the computer and loading the GUI?

1.
a) Desktop Manager
2.
a) File Manager
3.
a) Windows Explorer
4.
a) **Authentication**

Who is responsible for keeping the process from the program?

1.
a) **Operating system**
2.
a) CPU
3.
a) Monitor
4.
a) Memory

Questions**Choices**

What is a listener in context to event handling in delegation event model in Java?

1. A listener is a variable that is notified when an event occurs
2. A listener is an object that is notified when an event occurs
3. A listener is a non static method that is notified when an event occurs
4. A listener is a static method that is notified when an event occurred

Which of these methods from a Java event handling package is used to register a mouse motion listener?

1. addMouse()
2. addMouseListener()
3. addMouseMotionListener()
4. eventMouseMotionListener()

Questions**Choices**

Which of these methods from a Java event handling package is used to register a keyboard event listener?

1. KeyListener()
2. addListener()
3. addKeyListener()
4. eventKeyboardListener()

Which of these packages contains all the classes and methods required for even handling in Java?

1. java.applet
2. java.awt
3. java.event
4. java.awt.event

Questions	Choices
<p>Assume that we perform six stack operations, namely pushing and popping each of A, B and C such that $\text{push}(A)$ must occur before $\text{push}(B)$ which must occur before $\text{push}(C)$. In such a case, A, C, B can be a possible order for the pop operations, since this could be achieved by: $\text{push}(A)$, $\text{pop}(A)$, $\text{push}(B)$, $\text{push}(C)$, $\text{pop}(C)$, $\text{pop}(B)$. Satisfying this constraint, which one of the following orders could not be a valid order for the pop operations?</p>	<p>1. ABC 2. CBA 3. BAC 4. CAB</p>

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Questions	Choices
The solution of the recurrence $T(n) = 4T(n/2) + ((n*n*n)/(log n * log n))$ is	1. $O(n*n)$ 2. 3. $O(n*n*n)$ 4. $O(n*log n)$
Which of these class is superclass of every class in Java?	1. String class 2. Object class 3. Abstract class 4. ArrayList class

Questions	Choices
Which of these keywords cannot be used for a class which has been declared final in Java?	<ol style="list-style-type: none">1. implements2. static3. abstract4. public
___ environment is considered as strategic.	<ol style="list-style-type: none">1. Partial2. Stochastic3. Deterministic4. Rational

Questions	Choices
<p>___ is not an application of AI.</p>	<ol style="list-style-type: none"><li data-bbox="1199 187 1671 266">1. Database Management System<li data-bbox="1199 295 1468 374">2. Digital Assistants<li data-bbox="1199 403 1648 482">3. Natural language processing<li data-bbox="1199 511 1468 590">4. Computer Vision
<p>___ is not an application of AI.</p>	<ol style="list-style-type: none"><li data-bbox="1199 663 1671 742">1. Database Management System<li data-bbox="1199 771 1468 850">2. Digital Assistants<li data-bbox="1199 879 1648 958">3. Natural language processing<li data-bbox="1199 987 1468 1066">4. Computer Vision

Questions	Choices
_____ is quite a challenge in English Language Processing	<ol style="list-style-type: none">1. Handling Part-of-Speech tagging2. Tokenising sentences3. Tokenising words4. Handling sarcasm
_____ measures the impurity in data	<ol style="list-style-type: none">1. Information Gain2. Cluster Index3. Entropy4. Probability

Questions	Choices
_____ is the branch logic that provides decision-making capabilities in the control unit:	<ol style="list-style-type: none">1. Unconditional transfer2. Controlled transfer3. Conditional transfer4. Logical transfer
_____ is the machine learning algorithms that can be used with labelled data.	<ol style="list-style-type: none">1. Regression algorithms2. Clustering algorithms3. Association algorithms4. Instance Based algorithms

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Questions	Choices
_____ is/are the well-known Expert System/s for medical diagnosis systems.	<ol style="list-style-type: none">1. Mycin2. Caduceus3. Dendral4. SmhPal

Questions	Choices
<p>_____ determines the direction in which particular service requests may be initiated and allowed to flow through the firewall.</p>	<ol style="list-style-type: none"><li data-bbox="1096 187 1327 260">1. Service control<li data-bbox="1096 298 1327 371">2. Direction control<li data-bbox="1096 409 1327 482">3. User control<li data-bbox="1096 520 1327 593">4. Behaviour control
<p>_____ displays a relationship between two or three or many variables in a two-dimensional image.</p>	<ol style="list-style-type: none"><li data-bbox="1096 653 1327 726">1. Heatmap<li data-bbox="1096 764 1327 837">2. Bar chart<li data-bbox="1096 876 1327 949">3. Histogram<li data-bbox="1096 987 1327 1060">4. Pie chart

Questions	Choices
_____ is an agile software development approach.	1. Extreme programming 2. Quality function deployment 3. PSPEC 4. Unified process
_____ allows attackers to infer the data present in a database system even when the system is sufficiently secure to not display any erroneous information back to the attacker.	1. Tautology 2. Blind SQL injection 3. Piggybacked queries 4. Illegal/logically incorrect queries

Questions	Choices
_____ refers to vulnerabilities in application, utility, or operating system code.	1. Network attack surface 2. Intruder attack surface 3. Human attack surface 4. Software attack surface
_____ is not the unary operator	1. Union 2. Intersection 3. Set Difference doubt 4. Minus

Questions	Choices
_____ is a circumstance or event that may result in an authorized entity receiving false data and believing it to be true.	1. Deception 2. Unauthorized Disclosure 3. Disruption 4. Usurpation
_____ is an encryption operation where the influence of one plaintext symbol is spread over many ciphertext symbols with the goal of hiding statistical properties of the plaintext.	1. Confusion 2. Jumble 3. Misperception 4. Diffusion

Questions	Choices
<p>_____ limits the information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems) and to the types of transactions and functions that authorized users are permitted to exercise.</p>	<ol style="list-style-type: none">1. Access Control2. Systems and Services Acquisition3. System and Communications Protection4. System and Information Integrity

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Questions	Choices
A computer has 6 tape drives, with n processes competing for them. Each process may need 2 drives. The maximum value of n for which the system is guaranteed to be deadlock free is:	1. 2 2. 3 3. 4 4. <input checked="" type="checkbox"/> 5

Questions	Choices
A counting semaphore has a value of 8 at any given time of computation. On this semaphore, 15 P operations and 20 V operations were completed. The semaphore's resulting value is:	1. 2. a) 42 2. a) 2 3. a) 13 4. a) $\sqrt{3}$
A process has been allocated 3 page frames. Assume that none of the pages of the process are available in the memory initially. The process makes the following sequence of page references (reference string): 1, 2, 1, 3, 7, 4, 5, 6, 3, 1 If optimal page replacement policy is used, how many page faults occur for the above reference string?	1. ✓ 2. 8 3. 9 4. 10

Questions	Choices
A _____ is a structured representation of data.	1. Function 2. Database Table 3. Data base record 4. ✓ Data Frame
A _____ is used to demonstrate, on a purely syntactic basis, that one formula is a logical consequence of another formula.	1. ✓Deductive Systems 2. Inductive Systems 3. Reasoning with Knowledge Based Systems 4. Search Based Systems

Questions	Choices
A _____ applies a set of rules to each incoming and outgoing IP packet and then forwards or discards the packet.	1. Stateful inspection firewall 2. Application proxy firewall 3. ✓ Packet filtering firewall 4. Circuit-level proxy firewall
A _____ is a round trip path along n edges of G that visits every vertex once and return to its starting position	1. Minimum Spanning Tree 2. Travelling salesman problem 3. Multistage graph 4. ✓ Hamiltonian Circuit

Questions	Choices
A BCNF is :	<p>1. loss less join and dependency preserving</p> <p>2. ✓ loss less join but not dependency preserving</p> <p>3. not loss less join but dependency preserving</p> <p>4. dependency preserving</p>
A course instructor has data about students' attendance in her course in the past semester. She then correlates the attendance with their final exam scores. She realizes that students who score 90% and above also have an attendance of more than 75%. What type of analytics is she doing?	<p>1. ✓Descriptive Analytics</p> <p>2. Diagnostic Analytics</p> <p>3. Predictive Analytics</p> <p>4. Prescriptive Analytics</p>

Questions	Choices
A diagnostic test has 99% accuracy and 60% of all people have Covid-19. If a patient tests positive, what is the probability that they actually have the disease?	1. 0.996 2. 0.544 3. 0.999 4. ✓ 0.993

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Questions	Choices
	1.
	n
	2.
	n/2
A finite automata that will accept only string X of length n will have _____ many states	3.
	✓ n+1
	4.
	infinite

Questions	Choices
A functional dependency between two or more non-key attributes is called -----	1. Partial dependency 2. Join dependency 3. ✓ Transitive dependency 4. Trivial dependency
A graphical representation of a data set is referred to as a ____.	1. ✓ Visualization 2. Data Set 3. Investigative Cycle 4. Data formatting

Questions	Choices
A Hybrid Bayesian network contains _____.	<ol style="list-style-type: none">1. ✓ Both discrete and continuous variables2. Only Discrete variables3. Both Discrete and Discontinuous variable4. Continuous variable only
A Hybrid Bayesian network contains _____	<ol style="list-style-type: none">1. ✓ Both discrete and continuous variables2. Only Discrete variables3. Only Discontinuous variable4. Both Discrete and Discontinuous variable

Questions	Choices
	1. aaa
A language is represented by a regular expression $(a)^*(a+ba)$. Which of the following string does not belong to the regular set represented by the above expression	2. aba 3.
	✓ ababa
A language is represented by a regular expression $(a)^*(a+ba)$. Which of the following string does not belong to the regular set represented by the above expression.	4. aa 1. aaa 2. aba 3. ✓ ababa 4. aa

Questions	Choices
A linear list in which insertions to and deletions from are made either end of the structure is a	<ul style="list-style-type: none">1. Circular queue2. Priority queue3. Stack4. ✓ Dequeue
A machine language instruction format consists of	<ul style="list-style-type: none">1. ✓ op-code field & operand field2. only operand field3. only op-code field4. only register field

Questions	Choices
	1.
	✓ 15 states
	2.
A minimum state DFA accepting the language $L=\{w \mid w \text{ belongs } \{0,1\}^*\}$ number of 0s and 1s in w are divisible by 3 and 5, respectively} has	7 states
	3.
	9 states
	4.
	8 states

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Questions	Choices
	1. True
	2.
	False
A NFA converted to DFA has more than one final state.	3. may be true
	4. always true

Questions	Choices
A plan that describe how to take actions in levels of increasing refinement and specificity is _____	1. Problem solving 2. Planning 3. Non-hierarchical plan 4. ✓ Hierarchical plan
A production rule consists of _____	1. A set of Rule 2. A sequence of steps 3. ✓ Set of Rule & sequence of steps 4. Arbitrary representation to problem

Questions	Choices
A program P calls two subprograms P1 and P2. The P1 can fail 50% times and P2 can fail 40% times. The program P can fail:	<ul style="list-style-type: none">1. 50%✓ 2. 70%3. 60%4. 10%
A program P reads in 1000 integers in the range [0, 100] representing the scores of 500 students. It then prints the frequency of each score above 50. What would be the best way for P to store the frequencies?	<ul style="list-style-type: none">1. A dynamically allocated array of 550 numbers2. an array of 500 numbers✓ 3. an array of 50 numbers4. an array of 100 numbers

Questions	Choices
<p>A queue is implemented using an array such that ENQUEUE and DEQUEUE operations are performed efficiently. Which one of the following statements is CORRECT? (n refers to the number of items in the QUEUE).</p>	<ol style="list-style-type: none">1. Both operations can be performed in $O(n)$ time2. ✓ Both operations can be performed in $O(1)$ time3. ENQUEUE can be performed in $O(1)$ time and DEQUEUE can be performed in $O(n)$ time4. ENQUEUE can be performed in $O(n)$ time and DEQUEUE can be performed in $O(1)$ time
<p>A randomized algorithm uses random bits as input inorder to achieve a _____ good performance over all possible choice of random bits.</p>	<ol style="list-style-type: none">1. worst case2. best case3. ✓average case4. Average and best

Questions	Choices
A recursive function is defined as follows: $h(m) = \begin{cases} k, & \text{if } m = 0 \\ 1, & \text{if } m = 1 \\ 2h(m-1) + 4h(m-2), & \text{if } m \geq 2 \end{cases}$ If the value of $h(4)$ is 88 then the value of k is :	1. ✓2 2. 0 3. 1 4. -1
A regression model in which more than one independent variable is used to predict the dependent variable is called _____.	1. Simple linear regression model 2. ✓Multiple regression model 3. Independent model 4. Association model

Questions	Choices
A relation empdt1 is defined with attributes Empdata (empcode, name, street, city, state, pincode). For any pincode, there is only one city and state. Also, for given street, city and state, there is just one pincode. In normalization terms, Empdata is a relation in	1. 1 NF only 2. ✓ 2 NF and hence also in 1 NF 3. 3NF and hence also in 2NF and 1NF 4. BCNF and hence also in 3NF, 2NF and 1NF

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Questions	Choices
A researcher has developed a new ITS, which teaches calculus to 12th students. To check the effectiveness of this intervention, the researcher can select:	<ol style="list-style-type: none">1. Data collected from the students using the ITS in a given class only2. Data was collected from all previous studies.3. Data collected from previous studies belonging to the same class of calculus4. Data collected from a physics ITS can also use because both are science subject

Questions	Choices
A search algorithm takes _____ as an input and returns _____ as an output.	<ul style="list-style-type: none">1. ✓ Problem, solution2. Solution, problem3. Input, output4. Parameters, sequence of actions
A simple approach that is efficient when it works, but does not always work, is	<ul style="list-style-type: none">1. divide-and-conquer2. brute-force3. ✓ Greedy4. dynamic programming

Questions	Choices
A singly circular linked list with a header pointing to the last node	<ul style="list-style-type: none"><li data-bbox="1275 187 1410 266">1. queue<li data-bbox="1275 298 1410 377">2. array<li data-bbox="1275 409 1477 488">3. ✓linked list<li data-bbox="1275 520 1410 599">4. stack
A software requirement specification (SRS) document must avoid which among following:	<ul style="list-style-type: none"><li data-bbox="1275 658 1590 737">1. ✓ Design modification<li data-bbox="1275 769 1590 849">2. User interface issues<li data-bbox="1275 880 1635 960">3. Interface with third party software<li data-bbox="1275 991 1702 1071">4. Non-functional requirements

Questions	Choices
A space found in a library that is designed around the social construction of knowledge is	<ul style="list-style-type: none">1. Digital Universe2. ✓ Information Commons3. Source of Data4. data
A table is in the if only candidate keys are the determinants	<ul style="list-style-type: none">1. ✓ BCNF2. Fourth Normal Form3. Fifth Normal Form4. Third Normal Form
$A^* - A^+ =$	<ul style="list-style-type: none">1. epsilon2. A3. A^*4. A^+

Questions	Choices
According to the ISO-9126 Standard Quality Model. match the attributes given in List-I with their definitions in List-II:	
List I	List II
a. Functionality	i. Relationship between level of performance and amount of resources
b. Reliability	ii. Characteristics related with achievement of purpose
c. Efficiency	iii. Effort needed to make for improvement
d. Maintainability	iv. Capability of software to maintain
	1. (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
	2. (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)
	3. ✓ (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)
	4. (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)

Choose the correct option from the ones given below:

Questions	Choices
According to the “shape” of the data, If mean = median = mode, the shape of the distribution is _____	1. ✓ Symmetric 2. Asymmetric 3. Equal 4. Not equal

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Questions	Choices
Adaptive maintenance is a maintenance which _____.	<p>1. correct errors that were not discovered till testing phase</p> <p>2. is carried out to port the existing software to a new environment.</p> <p>3. improves the system performance</p> <p>4. both b and c</p>

Questions	Choices
Admissibility of the heuristic function is _____.	<ol style="list-style-type: none">1. Heuristic value \geq optimal cost to reach goal2. Heuristic value \leq optimal cost to reach goal3. Optimal cost \leq Heuristic value4. Optimal cost = heuristic value
Adversarial search problems uses	<ol style="list-style-type: none">1. Competitive Environment2. Cooperative Environment3. Neither Competitive nor Cooperative Environment4. Only Competitive and Cooperative Environment

Questions	Choices
Amazon S3 stores data as objects within resources called ?	<ol style="list-style-type: none">1. Auto Scaling2. EC2 Instances3. Buckets4. Amazon RDS
An attempt to learn or make use of information from the system that does not affect system resources is known as _____	<ol style="list-style-type: none">1. Active attack2. Passive attack3. Actor attack4. Dynamic attack

Questions	Choices
An operating system has three user processes, each of which requires two X units of resources. The smallest number of X units required to ensure that no deadlocks occur is	1. 3 2. 4 3. 5 4. 6
An _____ uses the same communication channel for injecting SQL code and retrieving results	1. inband attack 2. inferential attack 3. out-of-band attack 4. out-of-channel attack

Questions	Choices
An AI system developed by Daniel Bobrow to read and solve algebra word problems	1. SHRDLU 2. SIMD 3. BACON 4. STUDENT
An AI technique that allows computers to understand associations and relationships between objects and events is called ____.	1. Cognitive Science 2. Relative Symbolism 3. Pattern Matching 4. Machine Learning

Questions	Choices
An algorithm A is admissible if _____	<p>1. It is not guaranteed to return an optimal solution when one exists</p> <p>2. It is guaranteed to return an optimal solution when one exists</p> <p>3. It returns more solutions, but not an optimal one</p> <p>4. It guarantees to return more optimal solutions</p>

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Comprehensive Question Preview

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Questions	Choices
An entity set which does not have enough attributes to form a Primary key is	<ol style="list-style-type: none">1. Strong entity set2. Weak entity set.3. Weak relationship set4. Strong relationship set
An entity type whose existence is depend on another entity type is called -----	<ol style="list-style-type: none">1. Strong Entity Set2. Weak Entity Set3. Derived Attribute4. Primary key

Questions	Choices
An inference in backward chaining and forward chaining is, respectively, from ____.	<ol style="list-style-type: none"><li data-bbox="1185 187 1711 303">1. a set of facts to a new fact, a goal to a set of subgoals<li data-bbox="1185 339 1711 455">2. a set of subgoals to a goal, a set of facts to new fact<li data-bbox="1185 491 1711 607">3. a goal to a set of subgoals, a set of facts to a new fact<li data-bbox="1185 644 1711 760">4. a set of facts to a new fact, a set of subgoals to a goal
An instruction pipeline can be implemented by means of	<ol style="list-style-type: none"><li data-bbox="1185 837 1711 890">1. LIFO buffer<li data-bbox="1185 926 1711 1010">2. FIFO buffer<li data-bbox="1185 1047 1711 1115">3. Stack<li data-bbox="1185 1152 1711 1236">4. QUEUE

Questions	Choices
Approximation algorithm are best applied to _____	<ul style="list-style-type: none">1. Optimization2. Maximization3. Minimization4. Decision
Approximation algorithm provide _____ solution	<ul style="list-style-type: none">1. Optimal2. Decision3. Near-Optimal4. all of these

Questions	Choices
<p>Arrange the following levels of Data abstraction from the highest level to lowest level (Logical, View, Physical)</p>	<ol style="list-style-type: none"><li data-bbox="1170 184 1522 255">1. Physical, Logical, View<li data-bbox="1170 287 1522 358">2. View, Logical, Physical<li data-bbox="1170 390 1522 461">3. View, Physical, Logical<li data-bbox="1170 493 1522 564">4. Physical, View, Logical
<p>Arrange the following sentences in the correct order of sequence with respect to its data processing stages:</p> <ol style="list-style-type: none"><li data-bbox="485 795 714 826">a. Analyze data<li data-bbox="485 858 781 890">b. Pre-process data<li data-bbox="485 922 698 953">c. Collect data<li data-bbox="485 985 1118 1056">d. Get approval from Ethics Committee to conduct research and collect data<li data-bbox="485 1088 893 1120">e. Get participants consent	<ol style="list-style-type: none"><li data-bbox="1170 683 1349 755">1. d, e, c, b, a<li data-bbox="1170 795 1349 866">2. e, d, c, b, a<li data-bbox="1170 898 1349 969">3. d, c, e, b, a<li data-bbox="1170 1001 1349 1072">4. c, d, e, b, a

Questions	Choices
<p>As the number of training examples goes to infinity, your model trained on that data will have:</p>	<ol style="list-style-type: none">1. Lower variance2. Higher variance3. No change in variance4. Cannot be predicted
<p>Assume a system has 9 identical resources and x processes competing for them. Each process can request at most 3 resources. What is the maximum value of x at which the system will not deadlock?</p>	<ol style="list-style-type: none">1.52.43.34.6

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Questions	Choices
<p>Assume we perform a known-plaintext attack against Data Encryption Standard with one pair of plaintext and ciphertext. How many keys do we have to test in a worst-case scenario if we apply an exhaustive key search in a straightforward way?</p>	<p>1. 2^{55} keys</p> <p>2. 2^{54} keys</p> <p>3. 2^{52} keys</p> <p>4. 2^{56} keys</p>

Questions	Choices
<p>Assume we perform a known-plaintext attack against Data Encryption Standard with one pair of plaintext and ciphertext. How many keys do we have to test in an average-case scenario if we apply an exhaustive key search in a straightforward way?</p>	<ol style="list-style-type: none">1. 2^{55} keys2. 2^{56} keys3. 2^{57} keys4. 2^{58} keys
<p>Assume that a main memory with only 4 pages, each of 16 bytes, is initially empty. The CPU generates the following sequence of virtual addresses and uses the Least Recently Used (LRU) page replacement policy.</p> <p>0, 4, 8, 20, 24, 36, 44, 12, 68, 72, 80, 84, 28, 32, 88, 92</p> <p>How many page faults does this sequence cause? What are the page numbers of the pages present in the main memory at the end of the sequence?</p>	<ol style="list-style-type: none">1. 6 and 1, 2, 3, 42. 7 and 1, 2, 4, 53. 8 and 1, 2, 4, 54. a) 9 and 1, 2, 3, 5

Questions	Choices
Assume the array implementation of a circular queue. Which of the following conditions holds when there is only one element in the queue?	<ol style="list-style-type: none"><li data-bbox="1147 176 1417 255">1. front = rear = null<li data-bbox="1147 287 1417 366">2. front = rear != null<li data-bbox="1147 398 1417 461">3. front=rear+1<li data-bbox="1147 493 1417 572">4. front=rear-1
Assume we have two data tables P and Q. Which of the following operations will return all records that are common to both P and Q?	<ol style="list-style-type: none"><li data-bbox="1147 636 1417 715">1. LEFT JOIN<li data-bbox="1147 747 1417 826">2. RIGHT JOIN<li data-bbox="1147 858 1417 937">3. FULL OUTER JOIN<li data-bbox="1147 969 1417 1049">4. INNER JOIN

Questions	Choices
Assuming a pre flow was considered in which max flow algorithm?	1. Simplex 2. Ford Fulkerson 3. Edmonds-karp doubt 4. Push-relabel
Assuming the current disk cylinder to be 49 and the sequence for the cylinders to be 2, 34, 48, 63, 51, 10, 3, 21, 54, 15, 64 and 81. Find the sequences of servicing using the Shortest Seek Time First (SSTF) disk a)	1. a) 51, 48, 54, 63, 64, 81, 34, 21, 15, 10, 3, 2 2. a) 48, 51, 54, 63, 64, 81, 34, 21, 15, 10, 3, 2 doubt 3. a) 48, 51, 54, 63, 64, 81, 2, 3, 10, 15, 21, 34 4. a) 2, 3, 10, 15, 21, 34, 48, 51, 54, 63, 64, 81

Questions	Choices
	1. $\{b^na^mc^p \mid n, m, p \geq 1\}$
	2. $\{ba^nc \mid n \geq 0\}$
	3.
baa*c denotes the set	{ba^nc n >= 1}
	4. $\{w \mid w \text{ is a string of } a, b, c\}$
Blind Search can be used for which of the following situations?	1. Real-Life Simulation 2. Small Search Space 3. Advanced Game Theory 4. Network Design

Questions	Choices
Blind Search can be used for which of the following situations?	1. Real-life simulation 2. Small search space 3. Advanced game theory 4. Large search space

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Comprehensive Question Preview

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Questions	Choices
	1. No
Can a DFSA simulate a NFSA	2. Yes
	3. Sometimes
	4. Depends on NFA

Questions	Choices
	1.
Choose the correct option according to the given statements regarding Risk Management.	Statement 1 and 2 are correct
Statement 1: A risk is a potential problem - it might happen, it might not.	2. Only statement 1 is correct
Statement 2: Managers, software engineers, and customers participate in Risk Analysis and Management.	3. Only statement 3 is correct
Statement 3: Only Managers participate in Risk Analysis and Management.	4. Statement 1 and 3 are correct
	1. $* + a - bc / - de - +f gh$
Choose the equivalent prefix form of the following expression $(a+ (b-c)) * ((d-e)/(f + g - h))$	2. $* + a - bc - /de - +fg$
	3. $* + a - bc / - ed + -fg$
	4. $* + ab - c / - ed + -fg$

Questions	Choices
<p>Choose the false statement about third party API from the following.</p>	<ol style="list-style-type: none"><li data-bbox="1163 184 1343 255">1. Fewer Cost<li data-bbox="1163 287 1619 382">2. No need to build application from scratch<li data-bbox="1163 414 1715 509">3. App developer to change third party API as per business requirement<li data-bbox="1163 541 1439 612">4. No need to maintain
<p>Choose the incorrect statement with respect to Non-Functional Requirement (NFR).</p>	<ol style="list-style-type: none"><li data-bbox="1163 668 1715 810">1. Product-oriented Approach – Focus on system (or software) quality<li data-bbox="1163 842 1715 1017">2. Process-oriented Approach – Focus on how NFRs can be used in the design process<li data-bbox="1163 1049 1715 1191">3. Quantitative Approach – Find measurable scales for the functionality attributes<li data-bbox="1163 1223 1657 1334">4. Qualitative Approach – Study various relationships between quality goals

Questions	Choices
Chose the false statement in regard to visualization techniques	<ol style="list-style-type: none">1. Bar charts and stacked bar charts can be used for comparison.2. Histogram and box plots can be used to show distribution.3. A scatter plot can show a correlation.4. Pie chart and area charts can show distribution.
CII, UTF-8, UTF-16 etc., are ____	<ol style="list-style-type: none">1. Class Encodings2. Function Encodings3. Character Encodings4. Member Encodings

Questions	Choices
<p>Circular queue is superior to linear queue in</p> <p>(I) Efficiency of implementation</p> <p>(II) Effective space utilization</p> <p>Pick the correct choice</p>	<ol style="list-style-type: none">1. Only I is true2. Only II is true3. Both I and II are true4. Both I and II are false
<p>Cloud computing is a concept that involves pooling physical resources and offering them as ----- resource?</p>	<ol style="list-style-type: none">1. Cloud2. Real3. Virtual4. Service

Questions	Choices
Consider a business organization with 120 employees. A new security policy demands encrypted message exchange with a symmetric cipher. How many keys are required, if you are to ensure a secret communication for every possible pair of communicating parties?	<ol style="list-style-type: none">1. 7140 key pairs2. 120 key pairs3. 240 key pairs4. 60 key pairs

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Comprehensive Question Preview

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Questions	Choices
Consider three processes (process id 0, 1, 2 respectively) with computing bursts time units of 3, 4 and 7 respectively. All processes arrive at the same time. Consider the scheduling algorithm with the longest remaining time first (LRTF). In LRTF ties are broken by giving priority to the process with the lowest process id. What is the average waiting time for the three processes?	1. a) 7.33 2. a) 13 3. a) 8.33 4. a) 12

Questions	Choices
Consider three processes with process ID 1, 2, and 3 and computing burst time units of 2, 4, a) 9, 9 and 7 and 8 respectively. Every process arrives at the same time. Consider the scheduling algorithm in the order of the longest remaining time first (LRTF). If there is a tie in LRTF, we will prioritize the process with the highest process ID. What is the waiting time of P1, P2 and P3 respectively?	1. a) 9, 9 and 7 2. a) 6, 9 and 7 3. a) 12, 9 and 4 4. a) 12, 7 and 9
Consider a dataframe with the header "station, city, country, Predictor_Name, temp". Choose the function to calculate the mean of the Predictor_Name attribute.	1. mean(df) 2. mean(Predictor_Name) 3. mean(df\$Predictor_Name) 4. average(df\$Predictor_Name)

Questions	Choices
Consider a relation R(ABCD). Which of the following query is not correct?	1. Select A from R; 2. Select A, COUNT(*) from R; 3. Select A, C, COUNT(*) from R GROUP BY A, C; 4. Select C, COUNT(*) from R GROUP BY C;
Consider a relation scheme R = (A, B, C, D, E, H) on which the following functional dependencies hold: {A->B, BC->D, E->C, D->A}. What are the candidate keys of R?	1. AB, BC 2. AC, AE, DA 3. AEH, BEH, DEH 4. AEC, BED, DEH

Questions	Choices
Consider a schema R(ABCD) and functional dependencies $F=\{ A \rightarrow B, C \rightarrow D \}$. Then the decomposition of R into R1 (AB) and R2(CD) is_____.	<ol style="list-style-type: none">1. Dependency preserving and lossless joins2. Dependency preserving but not lossless join3. Lossless join but not dependency preserving.4. Neither dependency preserving nor lossless join
Consider a single dimension array A of size n with indices 1, 2, ..., n that houses two stacks. Stack A is filled from index 1 towards right and stack B is filled from index n towards left. If n_A is the number of elements in stack A and n_B is the number of elements in stack B, then overflow occurs when a PUSH operation is performed on either stack and	<ol style="list-style-type: none">1. $n_A = n_B$2. $n_A = n_B = n$3. $n_A + n_B = n$4. $n_A + n_B \geq n$

Questions	Choices
Consider a standard circular queue, q whose size is 11 with elements q[0], q[1], q[2], . . . , q[10]. The front and rear pointers are initialized to point at q[2]. In which position will the ninth element be added?	1. q[1] 2. q[0] 3. q[9] 4. q[10]

Questions	Choices
<p>Consider a Student table with schema Student(Regno, Name, DOB, ContactNo) and Regno as the primary key. Identify the equivalent query to the query "SELECT * FROM Student WHERE Regno=19MID0021 AND Phone=9999999999;" Identify the correct query that is/are equivalent.</p>	<ol style="list-style-type: none">1. Select * from student where regno=19MID0021 or phone=(select phone from student where phone= 9999999999 order by phone);2. Select * from student where regno like'19MID%' or phone=(select phone from student where phone= 9999999999 order by phone);3. Select * from student where regno=19MID0021 and phone in (9999999999, 9999999998);4. Select * from student where regno='19MID0021' AND phone= (select phone from student where phone= 9999999999 order by phone);

Questions	Choices
Consider that you are analyzing a large collection of fraudulent credit card transactions to discover if there are sub-types of these transactions. Which of the following learning methods best describes the given learning problem?	<ol style="list-style-type: none">1. Reinforcement Learning2. Supervised Learning3. Unsupervised Learning4. Semi-supervised learning

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Questions	Choices
Consider the case of a non-negative counting semaphore S. This semaphore then completed 11 P operations and 5 V operations. What is the largest initial value of S for which at least one P(S) operations are blocked?	1. 7 2. 6 3. 5 4. 4

Questions	Choices															
Consider the following operations performed on a stack of size 5 :	1. Underflow occurs 2. Overflow occurs 3. Error occurs 4. Stack operations are performed smoothly															
Push(a); Pop(); Push(b); Push(c); Pop(); Push(d); Pop(); Pop(); Push(e)																
Which of the following statements is correct?																
Consider the following processes, with the arrival time and the length of the CPU burst given in milliseconds. The scheduling algorithm used is preemptive shortest remaining time first.	1. 8.25 2. 10.25 3. 6.35 4. 4.25															
What is the average turnaround time of these processes?																
<table border="1"><thead><tr><th>Process</th><th>Arrival Time</th><th>Burst Time</th></tr></thead><tbody><tr><td>P_1</td><td>0</td><td>10</td></tr><tr><td>P_2</td><td>3</td><td>6</td></tr><tr><td>P_3</td><td>7</td><td>1</td></tr><tr><td>P_4</td><td>8</td><td>3</td></tr></tbody></table>	Process	Arrival Time	Burst Time	P_1	0	10	P_2	3	6	P_3	7	1	P_4	8	3	
Process	Arrival Time	Burst Time														
P_1	0	10														
P_2	3	6														
P_3	7	1														
P_4	8	3														

Questions	Choices
Consider the following propositional variables and their intuitive meanings.	
r : "It is raining"	1. It is raining
u : "Joe brings his umbrella"	2. Joe gets wet
w : "Joe gets wet"	3. Joe never gets wet
Suppose a knowledge base contains only the following implications:	4. Joe brings his umbrella
$r \rightarrow u$	
$u \rightarrow \neg w$	
$\neg r \rightarrow \neg w$	
Which of the following can be derived?	
Consider the following statements	1. both are false
I. $2^{(n+1)} = O(2^n)$	2. both are true 3. II is true I is false
II. $2^{(2n)} = O(2^n)$	4. I is true II is false
Pick the correct choice.	

Questions	Choices
<p>Consider the following statements and answer the correct observations from the given options.</p> <p>Statement I: A histogram represents the frequencies of all x values with a series of vertically connected bars.</p> <p>Statement II: Both boxplots and histograms display the entire distribution of a numerical variable.</p>	<ol style="list-style-type: none"><li data-bbox="1212 182 1572 293">1. Statement I is True and Statement II is False<li data-bbox="1212 341 1572 452">2. Statement I is False and Statement II is True<li data-bbox="1212 499 1572 610">3. Both Statement I and Statement II are True<li data-bbox="1212 658 1572 769">4. Both Statement I and Statement II are False
<p>Consider the following two statements: S1: { $0^{2n} \mid n \geq 1$ } is a regular language} S2: { $0^m 0^n 0^{(m+n)}$ $m \geq 1$ and $n \geq 2$ } is a regular language Which of the following statements is correct?</p>	<ol style="list-style-type: none"><li data-bbox="1212 817 1527 896">1. Only S1 is correct<li data-bbox="1212 928 1527 1007">2. Only S2 is correct<li data-bbox="1212 1055 1527 1166">3. Both S1 and S2 are correct<li data-bbox="1212 1214 1662 1325">4. None of S1 and S2 is correct

Questions	Choices
	1. 0.375
Consider the following vectors and find the MSE value. actual_values = [3, -0.5, 2, 7] predicted_values = [2.5, 0.0, 2, 8]	2. 1 3. 0.575 4. 0.6
Consider the regular expression $(x+y)^*y(x+y)^*y(x+y)^*$	1. all strings over {x,y} with substring yy 2. all strings over {x,y} with at most two y's 3. all strings over {x,y} containing at least two y's 4. all strings over {x,y} with substring xyy

Questions	Choices
	1.
	3
Consider the regular language $L = (111 + 11111)^*$. The minimum number of states in any DFA accepting the language is	2.
	5
	3.
	8
	4.
	9

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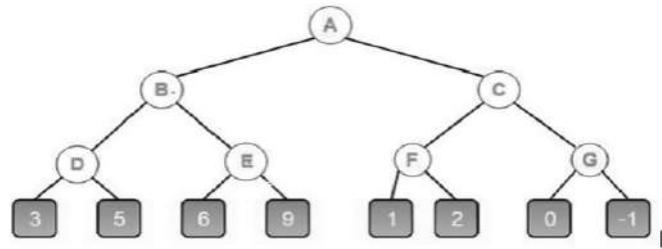
Search:

Questions	Choices
Consider the relation R (ABCDE): FD = { A → B, B → C, C → D, D → E} Find out the highest normal form	<ol style="list-style-type: none">1. 1NF2. 2NF3. 3NF4. BCNF

Questions	Choices
Consider the table testable: Create table testable(A integer, B integer, primary key (A), unique(B), check(A between 1 and 10), check (B between 1 and 5)); How many data records/tuples at most can this table contain?	1. 10 2. 5 3. 15 4. 50
Consider the transactions T1, T2, and T3 and the schedules S1 and S2 given below. T1: r1(X); r1(Z); w1(X); w1(Z) T2: r2(Y); r2(Z); w2(Z) T3: r3(Y); r3(X); w3(Y) S1: r1(X); r3(Y); r3(X); r2(Y); r2(Z); w3(Y); w2(Z); r1(Z); w1(X); w1(Z) S2: r1(X); r3(Y); r2(Y); r3(X); r1(Z); r2(Z); w3(Y); w1(X); w2(Z); w1(Z) Which one of the following statements about the schedules is TRUE?	1. Only S1 is conflict-serializable 2. Only S2 is conflict-serializable 3. Both S1 and S2 are conflict- serializable. 4. Neither S1 nor S2 is conflict- serializable.

Questions**Choices**

Consider the two-ply game tree given below and find the optimal path using Min-Max procedure.



1.
A-C-G-0

2.
A-B-D-5

3.
A-B-E-6

4.
A-C-F-1

Consider the virtual page reference string: 1.
1, 2, 3, 2, 4, 1, 2, 3, 4, 1 on a demand paged
virtual memory system running on a
computer system that has main memory
size of 3 page frames which are initially
empty. Let LRU FIFO and OPTIMAL denote
the number of page faults under the
corresponding page replacement policy.
Then, what is page fault value of FIFO,
OPTIMAL and LRU respectively?

a) 6, 5, and 9

a) 9, 5, and 8

a) 9, 6, and 7

a) 6, 4, and 8

Questions	Choices
Constrained by legal flow was considered in which max flow algorithm?	1. Simplex 2. Ford Fulkerson 3. Edmonds-karp 4. Push-relabel
Correctly match the following pairs: 1. Interrupt processing a. ELEVATOR 2. Belady's anomaly b. Round robin 3. Disk scheduling c. LIFO 4. Time sharing d. FIFO	1. a) 1-b 2-d 3-a 4-c 2. a) 1-c 2-d 3-a 4-b 3. a) 1-d 2-c 3-b 4-a 4. a) 1-c 2-b 3-d 4-a

Questions	Choices
Correlation between two variables in a data frame df is determined by using	<p>1. <code>cor(df)</code></p> <p>2. <code>correlation(df)</code></p> <p>3. <code>df.cor()</code></p> <p>4. <code>df.cor(df)</code></p>
Coupling and cohesion can be represented using a:	<p>1. Dependence matrix</p> <p>2. SRS</p> <p>3. Cause-effect graph</p> <p>4. Structure chart</p>

Questions	Choices
Cyclomatic complexity of a flow graph G with n vertices and e edges is	1. $V(G)=e+n-2$ 2. $V(G)=e-n+2$ 3. $V(G)=e+n+2$ 4. $V(G)=e-n-2$

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Questions	Choices
Data has been collected on visitors' viewing habits at a bank's website. Which technique is used to identify pages commonly viewed during the same visit to the website?	<ul style="list-style-type: none">1. Clustering2. Classification3. Association Rules4. Regression

Questions	Choices
	1. Inference
Data, information, and past experience combined together are termed as _____.	2. Acquisition 3. Vision 4. Knowledge
	1.
	$k+1$
Definition of a language L with alphabet $\{a\}$ is given as following. $L = \{ a^{nk} \mid k > 0$, and n is a positive integer constant} What is the minimum number of states needed in a DFA to recognize L ?	2. $n+1$ 3. 2^{n+1} 4. 2^{k+1}

Questions	Choices
During a write operation if the required block is not present in the cache then _____ occurs.	<ol style="list-style-type: none">1. Write miss2. Write latency3. Write hit4. Write delay
During the treatment of cancer patients, the doctor needs to be very careful about which patients need to give chemotherapy. Which metric we should use in order to decide the patients who should be given chemotherapy?	<ol style="list-style-type: none">1. Precision2. Recall3. Sensitivity4. Accuracy

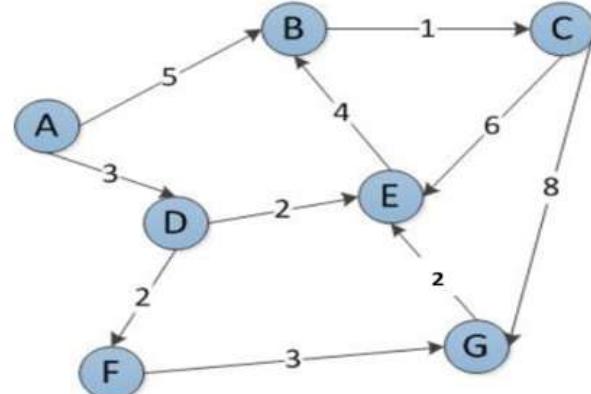
Questions	Choices
Each foreign key refers to a key in a relation.	<p>1. Primary Key</p> <p>2. Unique Key</p> <p>3. Composite Key</p> <p>4. Candidate Key</p>
$f(n) = O(g(n))$ if and only if	<p>1. $g(n) = \Omega(f(n))$</p> <p>2. $g(n) = \omega(f(n))$</p> <p>3. $g(n) = O(f(n))$</p> <p>4. $g(n) = o(f(n))$</p>

Questions**Choices**

Figure out which is not a service of cloud Broker?

1. Intermediation
2. Aggregation
3. Arbitrage
4. Auditing

Find the distance from node A to node G using uniform cost search.



1. 14
2. 8
3. 11
4. 7

Questions	Choices
<p>Find the output of the following code</p> <pre>x = 1:7; x</pre>	<p>1. [1] 1 2 3 4 5 6 7 x</p> <p>2. [1] 1 2 3 4 5 6 7</p> <p>3. warning</p> <p>4. error</p>

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Comprehensive Question Preview

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Questions	Choices
<p>Find the output of the following R code:</p> <pre>v <- TRUE print(class(v))</pre>	<ol style="list-style-type: none">1. logical2. boolean3. bool4. character

Questions	Choices
<p>Find the output of the following R code:</p> <pre>v <- "TRUE" print(class(v))</pre>	<p>1. logical 2. boolean 3. string 4. character</p>
<p>Find the output of the following snippet:</p> <pre>> x <- 3 > switch(6, 2+2, rnorm(5), mean(1:10))</pre>	<p>1. 4 2. 55 3. No output 4. 1</p>

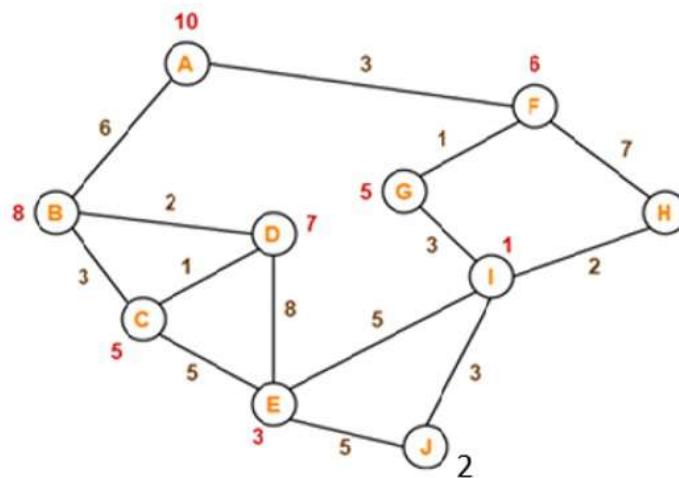
Questions	Choices
Finding the shortest path is a _____ problem	<p>1. Optimization</p> <p>2. Decision</p> <p>3. Hard</p> <p>4. All of these</p>
Finite automata recognizes ----- grammars	<p>1. type-1</p> <p>2. type-2</p> <p>3. type-3</p> <p>4. type-0</p>

Questions	Choices
Following is the preview of the data frame df1: <pre>id month_name 1 1 jan 2 2 feb 3 3 mar</pre>	1. [1] "data.frame" 2. [1] "id" "month_name" 3. [1] 3 2 4. [1] 2 3
Trace the output of the function, 'names(df1)'	1. 2n+ 1 2. 4n + 3 3. 6n - 2 4. 4n+1
For a software system under the single fault assumption, the total number of test cases in boundary value analysis for a problem with n inputs is:	

Questions	Choices
<p>For polynomial regression, which one of these structural assumptions is the one that most affects the trade-off between underfitting and overfitting:</p>	<ol style="list-style-type: none"><li data-bbox="1253 187 1715 271">1. The polynomial degree<li data-bbox="1253 303 1715 461">2. Whether we learn the weights by matrix inversion or gradient descent<li data-bbox="1253 493 1715 609">3. The assumed variance of the Gaussian noise<li data-bbox="1253 641 1715 756">4. The use of a constant-term unit input

Questions**Choices**

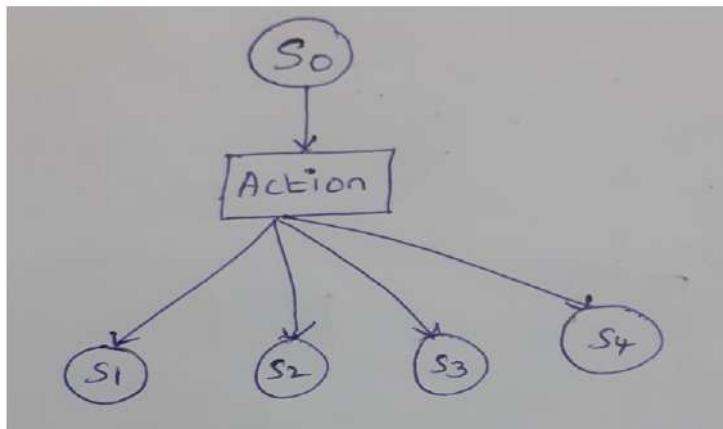
For the following graph, find the distance between node B to node H using greedy best first search algorithm. What is the path and its cost?



1. B-A-F-H, 16
2. B-C-E-J-I-H, 18
3. B-C-E-I-H, 15
4. B-D-E-I-H, 17

Questions**Choices**

For the given diagram, the probability of S1 and S2 is 0.3 and the probability of S3 and S4 is 0.2. The action cost involved here is 20. The utility values of S1, S2, S3 and S4 are 70, 50, 80 and 90 respectively. What is the utility value of S0?



1. 50
2. 70
3. 90
4. 100

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Comprehensive Question Preview

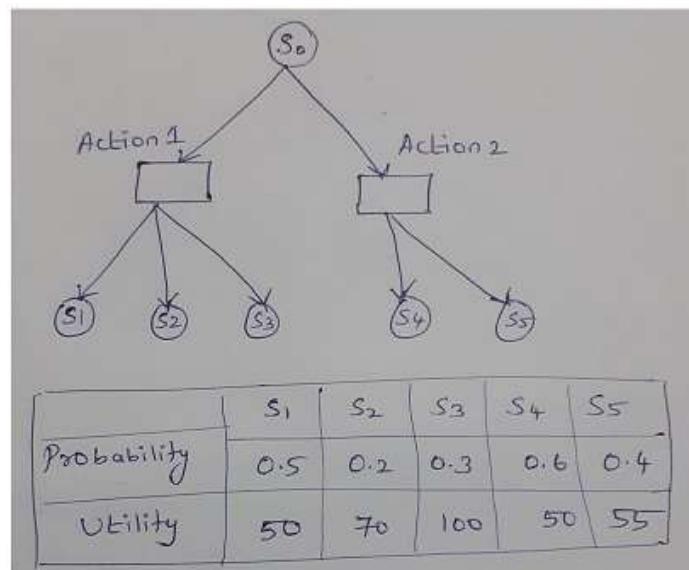
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Questions

Choices

For the given diagram, what will be the utility value of the state S_0 ?



1. 69
2. 52
3. 121
4. 100

Questions	Choices
<p>For which of the following tasks, stack is not suitable data structure?</p> <p>(a) Binary search in an array (b) Breadth first search (c) Implementing function calls (d) Process scheduling</p>	<p>1. (b) and (d) 2. (b) and (c) 3. (a) and (c) 4. (c) and (d)</p>
<p>From the following which will not return optimal solution</p>	<p>1. Dynamic Programming 2. Divide and Conquer 3. Branch and Bound 4. Approximation Algorithm</p>

Questions	Choices
<p>Geospatial data visualization is used to:</p>	<ol style="list-style-type: none"><li data-bbox="1199 166 1715 303">1. Represent data in a spatial context.<li data-bbox="1199 303 1715 439">2. Represent data in a chronological context.<li data-bbox="1199 439 1715 576">3. Represent data in a hierarchical context.<li data-bbox="1199 576 1715 779">4. Represent data in a network context.
<p>Geospatial data visualization is useful for identifying:</p>	<ol style="list-style-type: none"><li data-bbox="1199 779 1715 915">1. Key nodes in a network<li data-bbox="1199 915 1715 1052">2. Trends and patterns based on location.<li data-bbox="1199 1052 1715 1188">3. Trends and patterns over time<li data-bbox="1199 1188 1715 1501">4. The relationship between multiple variables

Questions	Choices
	1.
	N^2
Given an arbitrary non-deterministic finite automaton (NFA). with N states, the maximum number of states in an equivalent minimized DFA is at least.	2. 2^N
	3.
	$2N$
	4.
	$N!$

Questions	Choices
	1. abaabaaaabaa, aaaabaaaa, baaaaabaaaab
	2. aaaabaaaa, baaaaabaaaab, baaaaabaaa
Given the language $L = \{ab, aa, baa\}$, which of the following strings are in L^* ?	3. abaabaaaabaa, aaaabaaaa, baaaaabaaa
	4. abaabaaaabaa, baaaaabaaa, abaabaaaabaa

Questions	Choices
<p>Given the relations employee (name, salary, deptno) and department (deptno, deptname, address) Which of the following queries cannot be expressed using the basic relational algebra operations (U, $-$, \times, π, σ, p)?</p>	<ol style="list-style-type: none"><li data-bbox="1212 182 1684 309">1. Department address of every employee<li data-bbox="1212 341 1684 468">2. Employees whose name is the same as their department name<li data-bbox="1212 499 1684 626">3. The sum of all employees' salaries<li data-bbox="1212 658 1684 777">4. All employees of a given department
<p>Given two statements:</p> <p>I. Insertion of an element should be done at the last node in a circular list</p> <p>II. Deletion of an element should be done at the last node of the circular list.</p> <p>Which of the following is true?</p>	<ol style="list-style-type: none"><li data-bbox="1212 856 1684 896">Both statements are true<li data-bbox="1212 928 1684 968">2. Both statements are false<li data-bbox="1212 999 1684 1039">3. I is true and II is false<li data-bbox="1212 1071 1684 1110">4. I is false and II is true

Questions	Choices
Google Assistant is the example of _____.	1. General AI 2. Narrow AI 3. Super AI 4. Actuator

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Questions	Choices
Hamiltonian cycle is an example of _____	1. NP 2. P 3. NP - Complete 4. NP - Hard

Questions	Choices
Heuristic function $h(n)$ is the ____.	1. Lowest path cost 2. Cheapest path from root to goal node 3. Average path cost 4. Estimated cost of cheapest path from root to goal node
High speed adaptation of waterfall model in which rapid development is achieved by using a component-based construction approach is	1. RAD model 2. Incremental process model 3. Evolutionary process model 4. spiral model

Questions	Choices
Histograms, pie charts, and frequency polygons are the types of:	<ol style="list-style-type: none"><li data-bbox="1147 184 1522 255">1. Two-dimension diagram.<li data-bbox="1147 295 1462 366">2. Cumulative diagram.<li data-bbox="1147 406 1450 477">3. Dispersion diagram.<li data-bbox="1147 517 1522 588">4. One dimension diagram.
How can you effectively visualize a comparison between two or more sets of data?	<ol style="list-style-type: none"><li data-bbox="1147 644 1439 715">1. Stacked bar graphs<li data-bbox="1147 755 1450 826">2. Grouped bar graphs<li data-bbox="1147 866 1394 937">3. Dual-axis charts<li data-bbox="1147 977 1349 1049">4. Scatter plots

Questions	Choices
How can you show the relationship between two continuous variables in a 3D space?	<p>1. 3D scatter plots</p> <p>2. 3D bar graphs</p> <p>3. 3D line graphs</p> <p>4. 3D pie charts</p>
How do you set a title for a plot using matplotlib library?	<p>1. <code>plt.set.title("Title")</code></p> <p>2. <code>plt.title("Title")</code></p> <p>3. <code>plt.Title("Title")</code></p> <p>4. <code>plt.set_title("Title")</code></p>
How does Fog computing differ from cloud computing?	<p>1. It eliminates the need of Cloud</p> <p>2. <code>It decentralizes the Cloud</code></p> <p>3. It relies on the strong cloud</p> <p>4. No difference</p>

Questions	Choices
How does fog computing reduce latency and the resources necessary to transport data for processing?	<p>1. By allowing data to be processed where it is being used</p> <p>2. By moving data to the cloud more quickly for processing</p> <p>3. By positioning the cloud closer to the data access point</p> <p>4. By creating a new cloud that creates faster processing</p>
How does the state of the process is described in Hidden Markov Model?	<p>1. Literal</p> <p>2. Single random variable</p> <p>3. Single discrete random variable</p> <p>4. Number</p>

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Questions	Choices
How many coefficients do you need to estimate in a simple linear regression model (One independent variable)?	1. 1 2. 2 3. 3 4. 4

Questions	Choices
How many logical connectives are there in artificial intelligence?	1. 2. 3. 4. 5.
How many PUSH and POP operations will be needed to evaluate the following expression by reverse polish notation in a stack machine $(A * B) + (C * D/E)$?	1. 4 PUSH and 3 POP operations 2. 5 PUSH and 4 POP operations 3. 6 PUSH and 2 POP operations 4. 5 PUSH and 3 POP operations

Questions	Choices
	1. 1
How many security accounts per client is provided by Microsoft?	2. 3 3. 5
	4. 7
	1. 12
	2. 12
How many two state FA can be drawn over alphabet {0,1} which accepts $(0+1)^*$	3. 16
	4. 60

Questions	Choices
How many ways are available to solve the state-space search?	1. 1 2. 2 3. 3 4. 4
IaaS offers an isolated environment to individual customers through?	1. hypervisor 2. virtual machine sprawl 3. security vulnerabilities 4. renting

Questions	Choices
<p>Identify the correct statement(s) is/are with respect to MATLAB,</p> <ul style="list-style-type: none">i) Matlab is used for model planningii) Matlab is not used for model buildingiii) Matlab is used for commercial purposesiv) Matlab is an open-source tool	<ul style="list-style-type: none">1.ii) and iii)2.i) and iii)3.i) and iv)4.iii) and iv)
<p>Identify the true statement in logistic regression</p>	<ul style="list-style-type: none">1.Its a type of regression algorithm2.Dependent and independent variables can take any type of value.3.Dependent variable should be categorical while independent variable should be numerical4.Both the variables should be categorical

Questions	Choices
IEEE 830-1993 is a recommended standard for	<ol style="list-style-type: none">1. Software Requirement Specification2. Software design3. Testing4. Both (A) and (B)

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Questions	Choices
If the page size increases, the internal fragmentation is	<p>1. a) Decreases</p> <p>2. a) Increases</p> <p>3. a) Remains constant</p> <p>4. a) Increases and then decreases</p>

Questions	Choices
If a NFA contains n states then its DFA can have maximum of _____ number of states	1. 2^n 2. n 3. $2n$ 4. A
If a processor clock is rated as 1250 million cycles per second, then its clock period is _____	1. 1.9×10^{-10} sec 2. 1.6×10^{-9} sec 3. 1.25×10^{-10} sec 4. 8×10^{-10} sec
If a system is 64-bit machine, then the length of each word will be _____	1. 4 bytes 2. 8 bytes 3. 16 bytes 4. 64 bytes

Questions	Choices
If attribute A determines both attributes B and C, then it is also true that:	1. $A \rightarrow B$ 2. $B \rightarrow A.$ 3. $C \rightarrow A.$ 4. $(B,C) \rightarrow A.$
If attributes A and B determine attribute C, then it is also true that:	1. $A \rightarrow C.$ 2. $B \rightarrow C.$ 3. (A,B) is a composite determinant. 4. C is a determinant.

Questions	Choices
	1.
	n
If M1 machine recognizing L with n states, then M2 recognizing L^* constructed Using Thompson construction will have ----- states.	2. n+1 3. n+2 4. n-1
If T is a foreign key of the relation R then	1. The tuple of R has distinct values for T 2. T cannot have a null value for the tuples in R 3. T is the key for some other relation 4. T is a Primary key for R

Questions	Choices
If the number of conditions in a decision table is n , the maximum number of rules (columns) possible is:	1. n 2. $2n$ 3. 2^n 4. $\log_2 n$
If there exist a polynomial time reduction for a given problem then it belongs to_____	1. NP 2. P 3. NP - Complete 4. NP - Hard

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Questions	Choices
If we want to retain all duplicates, we must write _____ in place of union.	<ol style="list-style-type: none">1. Union all2. Union some3. Intersect all4. Intersect some
If you have a variable; say; credit card transactions in which you want to find the outlier values. Which of the following plots would be appropriate?	<ol style="list-style-type: none">1. Box Plot2. Scatter Plot3. Bar Graph4. Rug Plot

Questions	Choices
If you have removed repeated groups of values from a relation and also removed the partial key dependencies, then we would say that the given relation is in	1. 1NF 2. 2NF 3. 3NF 4. BCNF
If $f(n)$ is asymptotically smaller than $g(n)$, then	1. $f(n) = O(g(n))$ 2. $f(n) = \omega(g(n))$ 3. $f(n) = \Omega(g(n))$ 4. $f(n) = o(g(n))$

Questions	Choices
In _____ training model has only input parameter values.	<ol style="list-style-type: none">1. supervised learning2. Unsupervised learning3. reinforcement learning4. None of these
In Advanced Encryption Standard, for a 128-bit plain text as input, _____ bits are encrypted in one iteration.	<ol style="list-style-type: none">1. 642. 563. 164. 128

Questions	Choices
In Data Encryption Standard, for a 64-bit plain text as input, _____ bits are encrypted in one round.	1. 32 2. 64 3. 56 4. 28
In Elliptic Curve Cryptography the public key is a point on the curve, while the private key is an _____	1. Fraction 2. Non-integer 3. Integer 4. Point on the curve

Questions	Choices
In Pretty Good Privacy (PGP) encryption, the time at which the signature was made is referred to as	1. Timer 2. Timestamp 3. Counter 4. Stamp
In Secure Hash Algorithm (SHA-1), each round requires only bitwise Boolean operation with _____ registers	1. 32-bit 2. 1-bit 3. 8-bit 4. 16-bit

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Questions	Choices
In Secure Hash Algorithm (SHA-1), the compression function consists of ____ rounds.	1. 4 2. 20 3. 80 4. 40

Questions	Choices
In Secure Sockets Layer (SSL), the _____ defines a shared secret key that is used for conventional encryption of SSL payloads.	1. TCP 2. IP 3. HTTP 4. Handshake Protocol
In _____ HMM model, additional variables are added.	1. Temporal 2. Reality 3. Probability 4. Structured

Questions	Choices
In _____ mapping, the data can be mapped anywhere in the Cache Memory.	<ol style="list-style-type: none"><li data-bbox="1125 180 1260 260">1. Associative<li data-bbox="1125 287 1260 366">2. Direct<li data-bbox="1125 393 1260 472">3. Set Associative<li data-bbox="1125 499 1260 579">4. Indirect
In _____, the padding can be any amount that results in a total that is a multiple of the cipher's block length, up to a maximum of 255 bytes.	<ol style="list-style-type: none"><li data-bbox="1125 625 1507 704">1. Secure Sockets Layer (SSL)<li data-bbox="1125 731 1551 810">2. Transport Layer Security (TLS)<li data-bbox="1125 837 1619 917">3. Hypertext Transfer Protocol (HTTP)<li data-bbox="1125 944 1619 1055">4. Hypertext Transfer Protocol Secure (HTTPS)

Questions	Choices
In a box plot; what does the lower end of the box indicate?	1. The 50th percentile, or median 2. The 75th percentile 3. The 10th percentile 4. The 25th percentile
In a circularly linked list organization, insertion of a record involves the modification of	1. no pointer 2. 1 pointer 3. 2 pointers 4. 3 pointers
In a MapReduce programming model, the number of mapper for word counting of a document with five paragraph	1. 3 2. 5 3. depends on the data segment 4. 2

Questions	Choices
In a MapReduce programming model, which one of the following is not part of the MapReduce model?	1. Mapping 2. Sorting 3. Reducing 4. Merging
In a memory-mapped I/O system, which of the following will not be there?	1. LDA 2. ADD 3. OUT 4. IN

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Questions	Choices
In a satisfiability problem, fan-out was due to	<ol style="list-style-type: none">1. more inputs are connected2. more outputs are connected3. one output connected to more input4. one input connected to more output

Questions	Choices
In a supervised learning algorithm, consider the representation X->Y. Here, Y denotes ____.	1. Hypothesis space 2. Input vector 3. Feature vector 4. Class label
In Advanced Encryption Standard, the _____ is also referred to as the state of the algorithm	1. data path 2. pathway 3. route 4. trail

Questions	Choices
<p>In Advanced Encryption Standard, the finite field contains 256 elements and is denoted as _____.</p>	<ol style="list-style-type: none">1. $GF(2^{56})$2. $GF(2^{64})$3. $GF(2^{256})$4. $GF(2^8)$
<p>In AI, an environment is uncertain if it is _____.</p>	<ol style="list-style-type: none">1. Not fully observable and not deterministic2. Not fully observable or not deterministic3. Fully observable but not deterministic4. Not fully observable but deterministic

Questions	Choices
In AI, the agent that deals with the happy and unhappy states is called ____.	<ol style="list-style-type: none">1. Simple reflex agent2. Model based agent3. Learning agent4. Utility based agent
In Booth's multiplication algorithm, if $Q_n Q_{n+1} = 10$, what operation will you perform?	<ol style="list-style-type: none">1. Right shift AQ_{n+1}2. Subtract Multiplicand from A and ArRight shift AQ_{n+1}3. Add A and Multiplicand, and then Logical Right shift AQ_{n+1}4. Add A and Multiplicand, and then ArRight shift AQ_{n+1}

Questions	Choices
In Booth's multiplication algorithm, if $Q_n Q_{n+1} = 01$, what operation will you perform?	<ol style="list-style-type: none">1. Right shift AQ_{n+1}2. Subtract Multiplicand from A and ArRight shift AQ_{n+1}3. Add A and Multiplicand, and then Logical Right shift AQ_{n+1}4. Add A and Multiplicand, and then ArRight shift AQ_{n+1}
In case a machine is capable of changing its course of action based on the external environment without any external help then the machine is called	<ol style="list-style-type: none">1. Intelligent2. Mobile3. Both A and B4. Dynamic

Questions	Choices
In choosing a development life-cycle model, one would consider the	<p>1. Development Group Expertise, Problem Characteristics, User Expectations</p> <p>2. Languages, Development Schedule, Competition</p> <p>3. System Context, User Population, Platforms</p> <p>4. Organizational Structure, User Tasks, Performance Criteria</p>

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Questions	Choices
In database context ‘A determines B ‘ refers to	<p>1. Knowing the value of the attribute A you cannot look up the value of the attribute B</p> <p>2. You don’t need to know the value of the attribute A in order to look up the value of the attribute b</p> <p>3. Knowing the value of attribute B you can look up the value of the attribute A</p> <p>4. Knowing the value of attribute A you can look up the value of the attribute B</p>

Questions	Choices
In divide and conquer, the time is taken for merging the sub problems is	<ol style="list-style-type: none">1. $O(N)$2. $O(N \log N)$3. $O(N^2)$4. $O(\log N)$
In ensemble learning, you aggregate the prediction for weak learners, so that an ensemble of these models will give a better prediction than the prediction of individual models. Which of the following statements is/are true for weak learners used in ensemble learning?	<ol style="list-style-type: none">1. They have high bias, so they cannot learn complex learning problems2. They don't usually overfit and have high bias, so they cannot learn complex learning problems3. They don't usually overfit/ underfit4. The usual overfit

Questions	Choices
In ER diagram, an attribute which can have many values for a single entity is called as	1. Primary Attribute 2. Composite Attribute 3. Derived Attribute 4. Multivalued attribute
In Galois field, the number of elements in the field is called the _____ of the field.	1. Cardinality 2. Cartesian 3. Union 4. Group
In Graham Scan Algorithm traversing the points by increasing angle yields a simple closed path.	1. True 2. False 3. 4.

Questions	Choices
In how many stages the MapReduce program executes?	1. 2. 2. 3 3. 4. 4. 5.
In Linear Regression RMSE stands for_____.	1. Root Mean Square Error 2. Read Mean Squared Error 3. Root Mode Squared Error 4. Root Mean Sum Error

Questions	Choices
In LISP, the function evaluates <object> and assigns this value to the unevaluated <sconst>.	1. (constant <sconst> <object>) 2. (defconstant <sconst> <object>) 3. (eva <sconst> <object>) 4. (eva <object> <sconst>)
In order to get better answers from the Lemmatizer function, what should it be parameterized with ?	1. Part of Speech 2. Concordance 3. Lexicon 4. Language Models

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Questions	Choices
In partial order plan. A. Relationships between the actions of the behaviour are set prior to the actions B. Relationships between the actions of the behaviour are not set until absolutely necessary Choose the correct option.	1. A is true 2. B is true 3. Either A or B can be true depending upon situation 4. Neither A nor B is true

Questions	Choices
In python programming regular expressions, "\s" is used for __	<ol style="list-style-type: none">1. matches any whitespace character2. matches any non-whitespace character3. matches any alphanumeric character4. matches any non-alphanumeric character
In R, what is the function used to create a Logistic Regression classifier?	<ol style="list-style-type: none">1. lr2. lm3. glm4. glr

Questions	Choices
In R, which data structure able to store different kinds of object?	<ol style="list-style-type: none">1. Lists2. Vector3. Matrix4. Data frame
In R, which multiple linear regression equation can we input in the formula parameter?	<ol style="list-style-type: none">1. Salary ~ *2. Salary = *3. Salary ~ .4. Salary = Experience + Age

Questions	Choices
In regression, the equation that describes how the response variable (y) is related to the explanatory variable (x) is	<ol style="list-style-type: none"><li data-bbox="1163 187 1484 255">1. the correlation model<li data-bbox="1163 292 1484 360">2. the regression mode<li data-bbox="1163 396 1641 520">3. used to compute the correlation coefficient<li data-bbox="1163 557 1423 625">4. does not correlate
In relational algebra, Cross Product (Cartesian product) is a/an _____ operator.	<ol style="list-style-type: none"><li data-bbox="1163 695 1260 763">1. Binary<li data-bbox="1163 799 1260 868">2. Unary<li data-bbox="1163 904 1260 996">3. Ternary<li data-bbox="1163 1033 1484 1101">4. Both Binary and Unary

Questions	Choices
In simple linear regression, we use optimization to:	<ol style="list-style-type: none">1. Determine if the explanatory variable should be included in the model or not.2. Determine if a constant (in the form of an intercept) is needed or not.3. Test the hypothesis that each coefficient in the linear model is statistically different from 0.4. Establish the intercept and slope values in the linear fit based on some objective for fitting a line through the data.

Questions	Choices
In the execution of instruction Add #32, In the mathematical Equation of Linear Regression $Y = \beta_1 + \beta_2X + \epsilon$, (β_1, β_2) refers to _____.	<ol style="list-style-type: none">1. The processor raises an error2. The value 32 gets added with the value of the stack and pushes the result onto the stack top3. The value 32 gets added to the value of the accumulator and the result is stored in the accumulator.4. Add the value 32 with 32 and the result is stored in the Accumulator. <ol style="list-style-type: none">1. (X-intercept, Slope)2. (Slope, X-Intercept)3. (Y-Intercept, Slope)4. (slope, Y-Intercept)
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Questions	Choices
In univariate graphical EDA, Which plot is used to detect the non-normality, skewness and kurtosis	<ol style="list-style-type: none">1. Quantile-normal plots2. Box plots3. Histogram4. Stem-and-leaf plots
In unsupervised learning, the dataset does not have _____.	<ol style="list-style-type: none">1. Target attribute2. Features3. Samples4. Predictor variables

Questions	Choices
In which of the following learning the teacher returns reward and punishment to learner?	<ol style="list-style-type: none"><li data-bbox="1170 171 1388 239">1. Active learning<li data-bbox="1170 263 1500 331">2. Reinforcement learning<li data-bbox="1170 355 1448 423">3. Supervised learning<li data-bbox="1170 447 1477 515">4. unsupervised learning
In a hadoop mapreduce programming model, the number of maps is usually driven by the total size of _____	<ol style="list-style-type: none"><li data-bbox="1170 579 1275 647">1. Inputs<li data-bbox="1170 671 1282 739">2. Output<li data-bbox="1170 763 1260 831">3. Task<li data-bbox="1170 855 1304 923">4. Memory
In _____ , the padding can be any amount that results in a total that is a multiple of the cipher's block length, up to a maximum of 255 bytes.	<ol style="list-style-type: none"><li data-bbox="1170 976 1551 1044">1. Secure Sockets Layer (SSL)<li data-bbox="1170 1068 1596 1136">2. Transport Layer Security (TLS)<li data-bbox="1170 1160 1657 1228">3. Hypertext Transfer Protocol (HTTP)<li data-bbox="1170 1252 1641 1320">4. Hypertext Transfer Protocol Secure (HTTPS)

80% percent sure,
this might
be the answer, it
makes sense
to me, Kindly check
this qn guys

Questions	Choices
<p>Is the following proof valid for the premises, P, ($P \supset \neg Q$), ($R \supset Q$), R to get the result S?</p> <ol style="list-style-type: none"> 1. P 2. $P \supset \neg Q$ 3. $\neg Q$ (1, 2, modus ponens) 4. $\neg Q \vee S$ (3, addition) 5. R 6. $R \supset Q$ 7. Q (5, 6, modus ponens) 8. S (4, 7, disjunctive syllogism) <p>It is estimated that 50% of emails are spam emails. Some software has been applied to filter these spam emails before they reach your inbox. A certain brand of software claims that it can detect 99% of spam emails and the probability of a false positive (anon-spam email detected as spam) is 5%. Now if an email is detected as spam, then what is the probability that it is in fact a non-spam email?</p>	<ol style="list-style-type: none"> 1. valid, you can derive anything in an inconsistent KB 2. not valid 3. valid but not interpretable 4. not valid because KB is inconsistent <ol style="list-style-type: none"> 1. 5/104 2. 5/99 3. 104/5 4. 25/104

Questions	Choices
Kubernetes is	<ol style="list-style-type: none"> 1. Virtual machines 2. Container 3. Operating system 4. Micro services
Landon is 80% sure he forgot this textbook either at the Union or in Monteith. He is 40% sure that the book is at the union, and 40% sure that it is in Monteith. Given that Landon already went to Monteit and noticed his textbook is not there, what is the probability that it is at the Union?	<ol style="list-style-type: none"> 1. 1/4 2. 2/3 3. 1/3 4. 3/4
Let a Relation R have attributes {a ₁ , a ₂ , a ₃ ,..., a _n } and the candidate key is “a ₁ a ₂ a ₃ ” then the possible number of super keys?	<ol style="list-style-type: none"> 1. $2^{(n-1)}$ 2. $2^{(n-1)} + 1$ 3. $2^{(n-3)}$ 4. $2^{(n-3)} + 1$

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Comprehensive Question Preview

Search:

Search:

$f(n) \leq c^* g(n)$
used this relation,
kindly check guys

Questions	Choices
Let $f(n) = n^2$ and $g(n) = 2n/4$. Assume that we write $f(n) = O(g(n))$ using the standard definition of big-oh notation. Then the value of n_0 is	1. 5 2. 6 3. 7 4. 8

Questions	Choices
Let $f(n)$ and $g(n)$ are asymptotically non-negative functions. The value of $\max(f(n), g(n))$ is	<p>1. $\Theta(f(n) + g(n))$</p> <p>2. $\Theta(f(n).g(n))$</p> <p>3. $\Theta(f(n))$</p> <p>4. $\Theta(g(n))$</p>
Let G be a graph with n vertices and m edges. What is the tightest upper bound on the running time on DFS of G ? Assume that the graph is represented using adjacency matrix.	<p>1. $O(n^2)$</p> <p>2. $O(n)$</p> <p>3. $O(m+n)$</p> <p>4. $O(mn)$</p>
Let $L = \{\text{Epsilon}\}$ (i.e., L consist the empty string only). Then $L^+ = ?$	<p>1. $L^+ = \{ \}$</p> <p>2. $L^+ = \{\text{Epsilon} \}$</p> <p>3. can not be defined</p> <p>4. none of them</p>

[Check this too](#)

Questions	Choices
<p>let L={ab,aa,baa}. Which of the following strings are in L*. i)abaabaaabaa ii)aaaabaaaa iii)baaaaabaaaab iv)baaaaabaa which strings are in L4?</p> <p>This too</p>	<p>1. ii</p> <p>2. ii and iii</p> <p>3. ii and iv</p> <p>4. i,ii and iii</p>
<p>Let R = (A, B, C, D, E, F) be a relation scheme with the following dependencies: C→F, E→A, EC→D, A→B. Which of the following is a key of R?</p>	<p>1. AB</p> <p>2. EC</p> <p>3. AD</p> <p>4. E</p>
<p>Let R(A, B, C, D, E, P, G) be a relational schema in which the following functional dependencies are known to hold: $AB \rightarrow CD$, $DE \rightarrow P$, $C \rightarrow E$, $P \rightarrow C$ and $B \rightarrow G$. The relational schema R is</p>	<p>1. In BCNF</p> <p>2. In 3NF, but not in BCNF</p> <p>3. In 2NF, but not in 3NF</p> <p>4. Not in 2NF</p>

Questions	Choices
	1. u^{-1}
Let $u='1101'$, $v='0001'$, then $uv=11010001$ and $vu=00011101$. Using the given information what is the identity element for the string?	2. v^{-1}
	3. $u^{-1}v^{-1}$
	4. ϵ
Let $f(n)$ and $g(n)$ be asymptotically positive functions. Which of the following is true?	1. only I
(I) $f(n)=O(g(n))$ implies $g(n)=O(f(n))$	2. only II
(II) $f(n)+g(n)=\Theta(\min(f(n), g(n)))$	3. both I and II
	4. neither I nor II

Questions	Choices
Linear Regression is the supervised machine learning model in which the model finds the best fit __ between the independent and dependent variable.	<ol style="list-style-type: none">1. Linear line2. Nonlinear line3. Curved line4. Region

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Comprehensive Question Preview

Search:

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Questions	Choices
Linked lists are superior to arrays because	1. because of only I
(I) Size of a linked list need not be specified at compile-time	2. because of both I and II
(II) Linked list do not need contiguous memory locations	3. because of only II
Pick the correct choice	4. not because of I and II

Questions	Choices
Logistic regression is used when you want to _____	<p>1. ✓ dichotomous variable --> Binary variables Predict a dichotomous variable from continuous or dichotomous variables.</p> <p>2. Predict a continuous variable from dichotomous variables.</p> <p>3. Predict any categorical variable from several other categorical variables.</p> <p>4. Predict a continuous variable from dichotomous or continuous variables.</p>
Match the List 1 to List 2 and choose the correct option. 1. Requirement Elicitation _____ a. Module Development and integration 2. Design _____ b. Analysis 3. Implementation _____ c. Structure and behavioral 4. Maintenance _____ d. Performance tuning	<p>1. 1-c , 2-a , 3-d , 4-b</p> <p>2. 1-c , 2-a , 3-b , 4-d</p> <p>3. 1-a , 2-c , 3-d , 4-b</p> <p>4. ✓ 1-b , 2-c , 3-a , 4-d</p>

Questions		Choices
Match the following.		
List-I	List-II	
A. Myhill-Nerode Theorem coloring	1. Graph	1. A - 2, B - 3, C - 1, D - 4
B. Arden's Theorem is regular or not	2. language L	2. A - 2, B - 1, C - 4, D - 3
C. Register allocation evaluation	3. Expression	3. A - 2, B - 4, C - 1, D - 3
D. Operator precedence expression	4. Regular	4. A - 2, B - 3, C - 4, D - 1
Matplotlib is _____ plotting library.		
		1. 1D
		2. 2D
		3. 3D
		4. 4D

Questions	Choices
Max-flow is unique for the graph provided	<ul style="list-style-type: none">1. yes2. No3. May be4. None of these
MQTT protocol works on the principle of	<ul style="list-style-type: none">1. Request and Response2. Publish and Subscribe3. Push and Pull4. Send and Receive

Questions	Choices
Multi-player video game is an example of ____ AI environment.	<ul style="list-style-type: none">1. Discrete2. Continuous3. Static4. Single agent <p>1 loop</p>
In structural language, we can't add a new sort of	<ul style="list-style-type: none">2. function3. variable4. constant

Questions	Choices
In the Spiral model of software development, the primary determinant in selecting activities in each iteration is	<p>1. Iteration size</p> <p>2. Cost</p> <p>3. Adopted process such as Rational Unified Process or Extreme Programming</p> <p>4. Risk</p>

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Comprehensive Question Preview

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Questions	Choices
On which approach the <u>face recognition</u> system is based?	<ul style="list-style-type: none">1. Weak AI Approach2. Cognitive AI Approach3. Strong AI Approach4. <input checked="" type="checkbox"/> Applied AI Approach

Questions	Choices
<p>One of the most attractive applications of public-key algorithms is the establishment of a secure session key for a private-key algorithm such as Advanced Encryption Standard over an insecure channel.</p> <p>Assume Bob has a pair of public/private keys for the RSA cryptosystem. Suppose they develop a simple protocol using RSA which allows the two parties Alice and Bob to agree on a shared secret key. Who determines the key in this protocol?</p>	<p>1. Alice 2. Bob 3. Both 4. Third party</p> <p>3. Both</p>
<p>Optimized version of subset sum is a _____</p>	<p>1. NP 2. P 3. NPC 4. NP-Hard</p> <p>4. NP-Hard</p>

Questions	Choices
<p>Out of the following which is <u>not</u> a CISC machine.</p>	<ol style="list-style-type: none">1. IBM 370/1682. VAX 11/7803. Intel 804864. Motorola A567
<p>Pandas is an open-source _____ Library?</p>	<ol style="list-style-type: none">1. Ruby2. Javascript3. Java4. Python

Questions	Choices
Parse tree construction was a part of which NPC problem	<ul style="list-style-type: none">1. Circuit Satisfiability2. 3 CNF SAT3. Sub set sum4. All of these
Path existance identification is an _____ problem	<ul style="list-style-type: none">1. Optimization2. Decision3. Hard4. All of these
Pipelining strategy is called implement	<ul style="list-style-type: none">1. instruction execution2. instruction pre fetch3. instruction decoding4. instruction manipulation

Questions	Choices
Point out the correct statements about hybrid cloud	<ol style="list-style-type: none">1. Two private cloud2. Two public cloud<input checked="" type="checkbox"/> 3. At least one private cloud & one public cloud4. Many clouds from two or more different cloud providers
Predict the output of the following R code: as <- c('green','green','yellow','red','red','red','green') fa<- factor(as) print(nlevels(fa))	<ol style="list-style-type: none">1.4<input checked="" type="checkbox"/> 35Levels: green red yellow

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Comprehensive Question Preview

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Questions	Choices
<p>Predict the output of the following R code:</p> <pre>weight <- 63.5 # print(weight) print(class(weight))</pre>	<p>1. 63.5</p> <p>2. 63.5 integer</p> <p>3. numeric</p> <p>4. 63.5 numeric</p>

Questions	Choices
Pretty Good Privacy (PGP) encryption makes use of ____ types of keys	<ul style="list-style-type: none"><li data-bbox="1208 187 1260 219">1.<li data-bbox="1208 228 1282 260">Two<li data-bbox="1208 292 1260 323">2.<li data-bbox="1208 333 1304 365">Three<li data-bbox="1208 396 1260 428">3. <input checked="" type="checkbox"/> Four<li data-bbox="1208 514 1260 545">4.<li data-bbox="1208 555 1282 587">Five
Private clouds are	<ul style="list-style-type: none"><li data-bbox="1208 650 1260 682">1. loud services over the internet<li data-bbox="1208 745 1260 777">2. dedicated service over public cloud<li data-bbox="1208 841 1260 872">3. <input checked="" type="checkbox"/> service for unique / dedicated task<li data-bbox="1208 958 1260 990">4. distributed systems for a consumer

Questions	Choices
Procedural Domain Knowledge in a rule-based system is classified in the form of _____	<ul style="list-style-type: none">1. Control Rules2. Production Rules3. Meta Rules4. Chain Rules
Queues serve major role in	<ul style="list-style-type: none">1. Simulation of limited resources allocation2. Simulation of recursion3. Simulation of arbitrary linked list4. Expression evaluation

Questions	Choices
<p>Quick sort uses which of the following method to implement sorting</p>	<ul style="list-style-type: none"><li data-bbox="1208 187 1253 219">1.<li data-bbox="1208 255 1320 287">Merging<li data-bbox="1208 303 1253 334">2.<li data-bbox="1208 345 1365 377">Partitioning<li data-bbox="1208 398 1253 430">3.<li data-bbox="1208 466 1343 498">Selection<li data-bbox="1208 518 1253 550">4.
<p>Quicksort uses which approach to algorithm design</p>	<ul style="list-style-type: none"><li data-bbox="1208 588 1253 620">1.<li data-bbox="1208 731 1455 763">divide and conquer<li data-bbox="1208 783 1253 815">2.<li data-bbox="1208 852 1320 883">greedy<li data-bbox="1208 899 1253 931">3.<li data-bbox="1208 968 1365 999">brute force<li data-bbox="1208 1020 1253 1052">4.<li data-bbox="1208 1088 1500 1120">dynamic programming

Questions	Choices
R files have an extension ____.	1. ✓ .R 2. .RP 3. .RL 4. .S
R is an interpreted language so it can access through _____.	1. ✓ Command line interpreter 2. Disk operating system 3. Operating system 4. User interface operating system

Questions	Choices
R is an_____ programming language.	<ul style="list-style-type: none">1. GPL<input checked="" type="checkbox"/> 2. Open source3. Closed source4. Definite source

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Questions	Choices
<p>Regarding user-level threads and kernel-supported threads, consider the following remarks.</p> <p>1. User-level threads are transparent to the kernel</p> <p>2. Context switch is faster with kernel-supported threads</p> <p>3. Kernel-supported threads can be scheduled independently</p> <p>4. For user-level threads, a system call can block the entire process</p>	<p>1. 2, 3, & 4</p> <p>2. 1, 2, & 3</p> <p>3. ✓ 1, 3, & 4</p> <p>4. 2 & 4</p>

Questions	Choices
<p>Relation R has eight attributes ABCDEFGH. Fields of R contain only atomic values. F = {CH \rightarrow G, A \rightarrow BC, B \rightarrow CFH, E \rightarrow A, F \rightarrow EG} is a set of functional dependencies (FDs) so that F+ is exactly the set of FDs that hold for R.</p> <p>How many candidate keys does the relation R have?</p>	<ol style="list-style-type: none">1.243.84.No Limit
<p>Relation R with an associated set of functional dependencies, F is decomposed into BCNF. The redundancy based on functional dependencies in the resulting set relations is.</p>	<ol style="list-style-type: none">1. No redundancy2. Redundancy with prime attribute3. Proportional to the size of F+4. Redundancy with candidate key.

Questions	Choices
Representation of data structures in memory is known as	<ol style="list-style-type: none">1. Recursive structure✓ 2. Abstract data type3. Storage Structure4. File structure
Root Mean Squared error give difference between_____.	<ol style="list-style-type: none">1. original value and wrong value✓ 2. predicted value and actual value3. True value and false value4. True positive and False positive

Questions	Choices
RTN stands for _____	<ul style="list-style-type: none">1. Register Transfer Notation2. Register Transmission Notation3. Regular Transmission Notation4. Regular Transfer Notation
Running time of Jarvis march is	<ul style="list-style-type: none">1. $O(N)$2. $O(N \log N)$3. $O(N^2)$4. $O(\log N)$
SaaS does not necessarily mean that the software is?	<ul style="list-style-type: none">1. dynamic2. static3. sololithic4. diolithic

Questions	Choices
SaaS supports multiple users and provides a shared data model through _____ model	<ol style="list-style-type: none">1. single-tenancy✓ 2. multi-tenancy3. multiple-instance4. single-instance
Scheduling is	<ol style="list-style-type: none">1. a) the same regardless of the purpose of the system2. quite simple to implement, even on large mainframes3. a) unrelated to performance considerations✓ 4. a) allowing job to use the processor

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Comprehensive Question Preview

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Questions	Choices
Secure Hash Algorithm (SHA-1) is based on a _____ construction	<ol style="list-style-type: none">1. Feistel2. Merkle-Damgård3. Rijndael4. Norman

Questions	Choices
<p>Secure Hash Algorithm (SHA-1) produces a 160-bit output of a message with a maximum length of _____ bit.</p>	<ol style="list-style-type: none">1. 2^{64}2. 13. 644. 160
<p>Secure Sockets Layer (SSL) is designed to make use of _____ to provide a reliable end-to-end secure service</p>	<ol style="list-style-type: none">1. Transmission Control Protocol (TCP)2. User Datagram Protocol (UDP)3. Network Control Protocol4. Transmission Protocol

Questions	Choices
	1. hierarchically valid certificate
Secure/Multipurpose Internet Mail Extension (S/MIME) relies on a _____ for key exchange.	2. user 3. sender 4. receiver
Select the code to return the output in R "logical"	1. x <- F class(x) 2. x <- -10L class(x) 3. x <- "5.35" class(x) 4. x <- 3+4i class(x)

Questions	Choices
	1. x <- 3
	y <- 2
	x ^ y
	2. x <- 4
	y <- 1
Select the suitable code that returns the output [1] 16	x * y
	3. x <- 4
	y <- 2
	x ^ y
	4. x <- 4
	y <- 1
	x * y + x + y + x + y

Questions	Choices
Software maintenance takes inputs from:	1. SRS 2. Customer feedback reports 3. SDD 4. Coding standards
Software risk always involves two characteristics. What are those characteristics?	1. Project Deadline and Budget 2. Certainty and Profit 3. Staff size and Budget 4. Uncertainty and Loss

Questions	Choices
<p>Spam Classification is an example for</p> <p>Stack A has the entries a, b, c (with a on top). Stack B is empty. An entry popped out of stack A can be printed immediately or pushed to stack B. An entry popped out of the stack B can be only be printed. In this arrangement, which of the following permutations of a, b, c is not possible?</p>	<p>1. Naive Bayes</p> <p>2. Probabilistic condition</p> <p>3. Random Forest</p> <p>4. Decision Tree</p> <p>1. b, a, c</p> <p>2. b, c, a</p> <p>3. c, a, b</p> <p>4. a, b, c</p>

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Questions	Choices
<p>State true or False.</p> <p>In python programming,</p> <p>S1: A set is an unordered collection of elements</p> <p>S2: Sets allowed to add duplicate elements</p>	<ol style="list-style-type: none">1. S1 is true and S2 is false2. S2 is true and S1 is false3. S1 and S2 are true statements4. S1 and S2 are false statements
<p>Statistically, the maximum percentage of errors belong to following phase of software development life cycle.</p>	<ol style="list-style-type: none">1. Coding2. Design3. Specification4. Installation and maintenance

Questions	Choices
Stemming Algorithms like PorterStemmer and Lancaster get rid of _____	<p>1. Suffix</p> <p>2. Prefix</p> <p>3. Infix</p> <p>4. Circumfix</p>
Suppose 36% of families own a dog, 30% of families own a cat, and 22% of the families that have a dog also have a cat. A family is chosen at random and found to have a cat. What is the probability they also own a dog?	<p>1. 26.4%</p> <p>2. 28.2%</p> <p>3. 24.32%</p> <p>4. 22.25%</p>

Questions	Choices
<p>Suppose that there are two entity sets, R1 and R2 with attributes A, B, C and P, Q, R respectively. Here, A is the key for R1 and Q is the key for R2. If there exists a many-to-many relationship R3 from R1 to R2 with an attribute N, what would be the schema for R3 after converting the ER diagram into schemas?</p>	<ol style="list-style-type: none"><li data-bbox="1102 180 1417 260">1. R3(A, B, C, P, Q, R, N)<li data-bbox="1102 292 1282 371">2. R3(A, Q, N)<li data-bbox="1102 403 1237 450">3. R3(A, Q)<li data-bbox="1102 514 1349 593">4. R3(A, B, C, Q, N)
<p>Suppose we would like to perform clustering on spatial data such as the geometrical locations of houses. We wish to produce clusters of many different sizes and shapes. Which of the following methods is the most appropriate?</p>	<ol style="list-style-type: none"><li data-bbox="1102 641 1327 720">1. Decision Trees<li data-bbox="1102 752 1484 831">2. Density-based clustering<li data-bbox="1102 863 1462 910">3. Model-based clustering<li data-bbox="1102 974 1394 1053">4. K-means clustering

Questions	Choices
Suppose, You applied a Logistic Regression model on a given data and got a training accuracy X and testing accuracy Y. Now, you want to add a few new features in the same data. Select the option(s) which is/are correct in such a case.	<ol style="list-style-type: none">1. Testing accuracy increases2. Training accuracy increases or remains the same3. Testing accuracy decreases4. Testing accuracy increases or remains the same <ol style="list-style-type: none">1. Unsupervised Learning: Clustering2. Supervised Learning: Classification3. Reinforcement Learning4. Unsupervised Learning: Regression
Targeted marketing, Recommended Systems, and Customer Segmentation are applications in _____.	

Questions	Choices
The _____ is useful when the data consists largely of octets that correspond to printable ASCII characters.	1. normal encoding 2. normal encryption 3. quoted-printable transfer encoding 4. base64 transfer encoding
The addition operation in Elliptic Curve Cryptography is the counterpart of modular multiplication in RSA, and multiple addition is the counterpart of _____	1. modular exponentiation 2. modulation 3. exponentiation 4. multiplication

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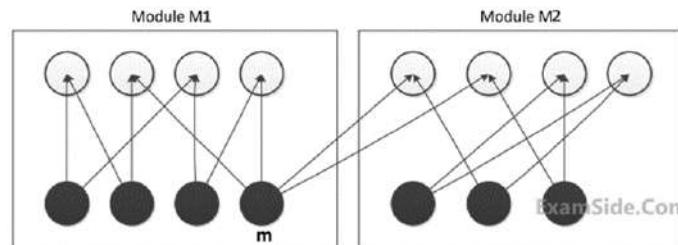
Questions	Choices
A. The addressing mode executes the instruction within the CPU without using any other operands.	<ul style="list-style-type: none">1. Direct2. Immediate3. Implied4. Register
-- The addressing mode which is most suitable for changing the normal sequence of execution is---	<ul style="list-style-type: none">1. Indirect2. Immediate3. Relative4. Indexed

Questions	Choices
	<ol style="list-style-type: none">1. Direct2. Relative3. Indexed with offset4. Indirect
A. The addressing mode which uses the PC instead of general purpose register is---	<ol style="list-style-type: none">1. Virtual page number2. a) Page frame number3. Both virtual page number and page frame number4. a) Access right information

Questions	Choices
<p>The following code snippet is to be tested for statement coverage:</p> <pre>begin if (a==b) (S1; exit ;) else if (c==d) (S2 ;) else (S3; exit ;) S4; end</pre> <p>The test cases T1, T2, T3 and T4 given below are expressed in terms of properties satisfied by values of variables declared as a, b, c and d. The exact values are not given.</p> <p>T1: a, b, c and d are all equal</p> <p>T2: a, b, c and d are all distinct</p> <p>T3: $a = b$ and $c \neq d$</p> <p>T4: $a \neq b$ and $c = d$</p> <p>Which of the test suites given below ensures the coverage of statements S1, S2, S3 and S4?</p>	<p>1. T1, T2, T3</p> <p>2. T2, T4</p> <p>3. T3, T4</p> <p>4. T1, T2, T4</p>

Questions

The following figure represents access graphs of two modules M1 and M2. The filled circles represent methods and the unfilled circles represent attributes. If method m is moved to module M2 keeping the attributes where they are, what can we say about the average cohesion and coupling between modules in the system of two modules?



Choices

1. There is no change
2. Average cohesion goes up but coupling is reduced
3. Average cohesion goes down and coupling is reduced
4. Average cohesion and coupling increase

Questions	Choices
<p>The following is a solution to the Dining Philosophers Problem that avoids deadlock:</p>	<ol style="list-style-type: none"><li data-bbox="1212 182 1706 230">1.<li data-bbox="1212 230 1706 372">a) ensure that all philosophers pick up the left fork and the right fork<li data-bbox="1212 388 1706 436">2.<li data-bbox="1212 436 1706 610">a) ensure that all philosophers pick up the left fork before the right fork<li data-bbox="1212 642 1706 690">3.<li data-bbox="1212 690 1706 864">a) ensure that all philosophers pick up the right fork before the left fork<li data-bbox="1212 896 1706 944">4.<li data-bbox="1212 944 1706 1277">a) ensure that one particular philosopher picks up the left fork before the right fork, and that all other philosophers pick up the right fork before the left fork

Questions	Choices
The greatest common divisor of 7469 and 2464 is	<p>1. 77</p> <p>2. 1</p> <p>3. 0</p> <p>4. 22</p>
The insertion of bits into gaps in a data stream to frustrate traffic analysis attempts is referred to as _____.	<p>1. Traffic Padding</p> <p>2. Digital Signature</p> <p>3. Notarization</p> <p>4. Authentication Exchange</p>

Questions	Choices
<p>The instruction Add #28,R3 does---</p> <p>A.</p> <p>B.</p> <p>C</p>	<p>1. Add 28 with the value of R3 and store the result in R3.</p> <p>2. Add 28 with the address stored in R3 and store the result in R3</p> <p>3. Add the value of R3 with the value of memory location 28</p> <p>4. Add the value 28 with the value of a memory location that is stored in R3.</p>

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Questions	Choices
The k-means algorithm is a	<ol style="list-style-type: none">1. Supervised learning algorithm2. Unsupervised learning algorithm3. Semi-supervised learning algorithm4. Weakly supervised learning algorithm
The modification of software to match changes in environment falls under which category of software maintenance?	<ol style="list-style-type: none">1. Perfective2. Adaptive3. Corrective4. Preventive

Questions	Choices
The operands of zero address instructions are stored in,	1. Accumulator 2. Cache Memory location 3. Stack 4. CPU registers
The primary tool used in structured design is a:	1. Data-flow diagram 2. Structure chart 3. Module 4. Program flowchart
The __ represents facts and rules.	1. Knowledge base 2. Inference engine 3. Operating system 4. None of these

Questions	Choices
The _____ project builds on top of pandas and matplotlib to provide easy plotting of data.	1. yhat 2. Seaborn 3. Vincent 4. Pychart
The action of the Simple reflex agent completely depends upon _____.	1. Perception history 2. Current perception 3. Learning theory 4. Utility functions

Questions	Choices
The address field of a linked list	<ol style="list-style-type: none"><li data-bbox="1147 176 1619 255">1. contains address of next node<li data-bbox="1147 287 1574 366">2. may contain null character<li data-bbox="1147 398 1641 477">3. contains address of next pointer<li data-bbox="1147 509 1394 588">4. both (A) and (B)
The adjective “first-order” distinguishes first-order logic from _____ in which there are predicates having predicates or functions as arguments, or in which one or both of predicate quantifiers or function quantifiers are permitted.	<ol style="list-style-type: none"><li data-bbox="1147 652 1596 731">1. Representational Verification<li data-bbox="1147 763 1574 842">2. Representational Adequacy<li data-bbox="1147 874 1439 953">3. Higher Order Logic<li data-bbox="1147 985 1462 1064">4. Inferential Efficiency

Questions	Choices
<p>The Algorithm in which every operation is uniquely defined is called _____</p>	<p>1. Deterministic 2. Non-Deterministic 3. Approximation 4. Backtracking</p>

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Questions	Choices
The algorithm most sensitive to outliers is	<ol style="list-style-type: none">1. K-means clustering algorithm2. K-medians clustering algorithm3. K-modes clustering algorithm4. K-medoids clustering algorithm

Questions	Choices
The algorithm provides a foundation for important algorithms like bagged decision trees, random forests, and boosted decision trees is _____.	<ol style="list-style-type: none"><li data-bbox="1170 176 1462 255">1. Classification trees<li data-bbox="1170 287 1439 366">2. Regression trees<li data-bbox="1170 398 1417 477">3. Recursive trees<li data-bbox="1170 509 1686 620">4. Classification tree and Regression trees
The assurance that data received are exactly as sent by an authorized entity (i.e., contain no modification, insertion, deletion, or replay) is known as _____.	<ol style="list-style-type: none"><li data-bbox="1170 683 1529 763">1. Data Theft<li data-bbox="1170 795 1574 874">2. Data Mugging<li data-bbox="1170 906 1596 985">3. Data Reception<li data-bbox="1170 1017 1574 1096">4. Data Integrity

Questions	Choices
The attribute that can be divided into other attribute is called	1. simple attribute 2. composite attribute 3. multi-valued attribute 4. derived attribute
The average number of steps taken to execute the set of instructions can be made to be less than one by following	1. isa 2. pipelining 3. super-scaling 4. sequential
The average positive difference between computed and desired outcome values is ____.	1. Root mean squared error 2. Mean squared error 3. Mean absolute error 4. Mean positive error

Questions	Choices
	1. it sometimes fails to recognize grammars that are regular
The basic limitation of FSM is that	2. it sometimes recognized grammars that are not regular
	3. it cannot remember arbitrary large amounts of information
	4. all of the comments are true
The bit used to indicate whether the block was recently used or not is _____	1. Reference bit 2. Dirty bit 3. Control bit 4. Idol bit

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Questions	Choices
The condition flag Z is set to 1 to indicate _____	1. The operation has resulted in an error 2. The operation requires an interrupt call 3. The result is zero 4. There is no empty register available
The degree of belief without any other evidence is called as ____.	1. Prior probability 2. Posterior probability 3. Conditional probability 4. Bayes rule

Questions	Choices
The dplyr package can be installed from CRAN using _____.	1. installall.packages("dplyr") 2. install.packages("dplyr") 3. installed.packages("dplyr") 4. installed.packages("dplyr.dplyr")
The effectiveness of the cache memory is based on the property of _____	1. Locality of reference 2. Memory localization 3. Memory size 4. Memory hierarchy

Questions	Choices
The efficient data structure to insert/delete a number to/from a stored set of numbers is	<ul style="list-style-type: none">1. queue2. linked list3. doubly linked list4. binary tree
A The encoded form of the multiplier, 11010 in Modified Booth's algorithm is,	<ul style="list-style-type: none">1. 0 -1 +22. 0 -1 -23. 0 +1 -24. 0 +1 +1

Questions	Choices
The Euclidean distance between the two data points X (-4,4) and Y (8,8) is _____.	1. 10.645,12.650 2. 12.645,12.650 3. 12.645,10.650 4. 11.645,11.650
The field that investigates the mechanics of human intelligence is _____.	1. History 2. Cognitive science 3. Psychology 4. Machine Learning
The first fit algorithm never uses more bins than the next fit algorithm	1. True 2. False 3. 4.

Questions	Choices
The first widely-used commercial form of Artificial Intelligence (AI) is being used in many popular products like microwave ovens, automobiles and plug in circuit boards for desktop PCs. It allows machines to handle vague information with a deftness that mimics human intuition. What is the name of this AI?	<ol style="list-style-type: none">1. Boolean Logic2. Human Logic3. Fuzzy Logic4. Functional Logic

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Questions	Choices
<p>The five items: A, B, C, D and E are pushed in a stack, one after other starting from A. The stack is popped four items and each element is inserted in a queue. The two elements are deleted from the queue and pushed back on the stack. Now one item is popped from the stack. The popped item i</p>	<p>1. A 2. B 3. C 4. D</p>

Questions	Choices
<p>The following postfix expression with single digit operands is evaluated using stack. 8 2 3 ^ / 2 3 * + 5 1 * -. The top two elements of the stack after the first * is evaluated are</p>	<p>1. 1, 5</p> <p>2. 3, 2</p> <p>3. 6, 1 </p> <p>4. 5, 7</p>
<p>The function used to print column names of the dataframe 'df' is</p>	<p>1. names()</p> <p>2. names(df)</p> <p>3. df.names()</p> <p>4. names("df")</p>

Questions	Choices
<p>The hashing technique that allows a hash file either to expand or to shrink dynamically is _____.</p>	<ol style="list-style-type: none"><li data-bbox="1208 176 1500 266">1. Extendible hashing<li data-bbox="1208 298 1455 388">2. Linear hashing<li data-bbox="1208 420 1507 495">3. Non-linear hashing<li data-bbox="1208 526 1477 617">4. External hashing
<p>The hashing technique which allocates fixed number of buckets is classified as</p>	<ol style="list-style-type: none"><li data-bbox="1208 652 1439 742">1. Dynamic hashing<li data-bbox="1208 774 1410 864">2. Static hashing<li data-bbox="1208 896 1439 987">3. External hashing<li data-bbox="1208 1018 1432 1109">4. Internal hashing

Questions

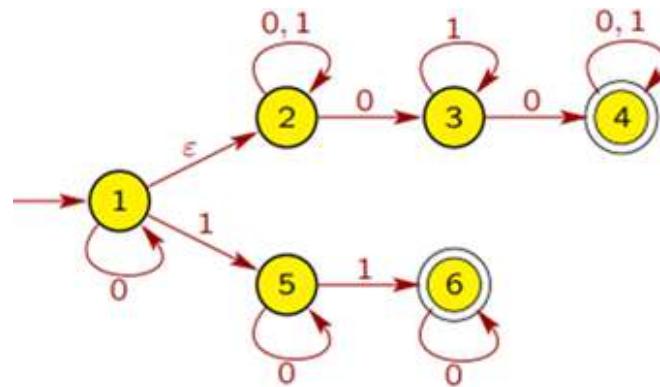
Choices

The initial configuration of queue is a, b, c, d with a at the front. To get the configuration d, c, b, a how many deletions and additions required?

1.
3 deletions 3 additions

2.
2 deletions 3 additions
3.
3 deletions 2 additions
4.
1 deletions 3 additions

The language $\{ w \in \Sigma^* \mid w \text{ contains}$



1.
Many number of 0's and 1's
2.
Equal number of 0's and 1's
3.
At least two 0s, or exactly two 1s
4.
At least two 0s and exactly two 1s

Questions**Choices**

The lexical analysis for a modern language such as Java needs the power of which one of the following machine models in a necessary and sufficient sense?

1.

Finite state automata

2.

eterministic pushdown automata

3.

Non-deterministic pushdown automata

4.

Turing machine

Questions	Choices
The lower degree of cohesion is kind of	<p>1. Logical Cohesion</p> <p>2. Coincidental Cohesion</p> <p>3. Procedural Cohesion</p> <p>4. Communicational Cohesion</p>
The lowest allowed value of variance is	<p>1. 0</p> <p>2. 1</p> <p>3. -1</p> <p>4. -2</p>

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Questions	Choices
The main aim of Artificial Intelligence is	<ol style="list-style-type: none">1. To solve real-world issues2. To explain different sorts of intelligence3. To solve artificial problems4. To obtain information about scientific cause

Questions	Choices
	1. True
The Mean Squared Error is a measure of the average of the squares of the residuals.	2. False 3. Both True and False 4. Neither
	1. CMOS 2. Memory sticks 3. Blue-ray devices
The memory devices which are similar to EEPROM but differ in the cost effectiveness is _____	4. Flash memory
	1. Exceptions 2. Signal handling 3. Interrupts 4. DMA
The method of synchronising the processor with the I/O device in which the device sends a signal when it is ready is?	

Questions	Choices
The method used to import the excel data into R environment is	<ol style="list-style-type: none">1. <code>df = read(file.choose(), 1, header= T)</code>2. <code>df = readfile(file.choose(), 1, header= T)</code>3. <code>df = readdata(file.choose(), 1, header= T)</code>4. <code>df = read.xlsx(file.choose(), 1, header= T)</code>
The metric used to find the dissimilarity between two clusters in hierarchical clustering are	<ol style="list-style-type: none">1. Single-link and Complete-link2. Complete-link and Average-link3. Single-link and Average-link4. Single-link, Complete-link, and Average-link

Questions	Choices
The minimum length for strings in the regular expression $(10^* + 001^*)^*$ is _____	<p>1. two</p> <p>2. zero</p> <p>3. one</p> <p>4. infinite</p>
The minimum no. of variables/ features required to perform clustering is	<p>1. 0</p> <p>2. 1</p> <p>3. 2</p> <p>4. 3</p>
The next operation to be performed in non- restoring division algorithm if the sign bit of the dividend is 1 is,	<p>A. Left shift and A-M</p> <p>B. Right shift and A-M</p> <p>C. Left shift and A+M</p> <p>D. Right shift and A+M</p>

Questions	Choices
The number of attributes in relation is called as its	1. Cardinality 2. Degree 3. Tuples 4. Entity

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Questions	Choices
The number of states in DFA is -----than the number of states in NFA for the same Language.	<p>1. Greater</p> <p>2.</p> <p>3. greater equal</p> <p>4. equal</p>

Questions	Choices
The number successful accesses to memory stated as a fraction is called as _____	<ol style="list-style-type: none">1. Access rate2. Success rate3. Hit rate4. Miss rate
The outcome of the following set of commands is <pre>x = matrix(nrow=2, ncol=4, data=c(11,12,13,14,15,16,17,18)) y=8-2*x y[2, 3]</pre>	<ol style="list-style-type: none">1. 152. 163. -244. -22

Questions	Choices
	1. [1] 1 0 119 -26 -201 500 without a warning message
	2. [1] 1 0 119 -26 -201 500 with a warning message
The outcome of the R command <code>c(3,4,5,6,7,8)**c(1,2,3) - (c(1,2,3,4,5,6)^c(2,3,1))**2</code> is	3. [1] 2 -48 116 -250 -15576 476 without a warning message
	4. [1] 2 -48 116 -250 -15576 476 with a warning message
The plot with summary is in	1. scatter plot 2. bar plot 3. histogram 4. boxplot

Questions	Choices
The power set of f_i is	<ol style="list-style-type: none">1. $\{ f_i, \{ f_i \} \}$2. $\{ f_i \}$3. $\{ f_i, f_i \}$4. None
The process by which the brain incrementally orders actions needed to complete a specific task is referred as _____	<ol style="list-style-type: none">1. Planning problem2. Partial order planning3. Total order planning4. Both Planning problem & Partial order planning

Questions	Choices
The process by which the brain incrementally orders actions needed to complete a specific task is referred as _____.	<ol style="list-style-type: none"><li data-bbox="1275 187 1545 266">1. Planning problem<li data-bbox="1275 298 1612 377">2. Partial order planning<li data-bbox="1275 409 1590 488">3. Total order planning<li data-bbox="1275 520 1657 636">4. Both Planning problem & Partial order planning
The process in which a file is partitioned into smaller parts and different parts are stored in different disks is	<ol style="list-style-type: none"><li data-bbox="1275 695 1365 774">1. RAID<li data-bbox="1275 822 1388 901">2. Mirroring<li data-bbox="1275 933 1388 1012">3. Stripping<li data-bbox="1275 1044 1500 1107">4. RAID classification

Questions	Choices
The process of removing the unwanted branches from the tree is	1. Overfitting 2. Underfitting 3. Pruning 4. Scaling

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Questions	Choices
The process to convert the data from one format to another and consolidate everything into one standardized format across all data is called	<ol style="list-style-type: none">1. Obtain Data2. Scrub Data3. Explore Data4. Interpreting Data
The process wherein the processor constantly checks the status flags is called as _____	<ol style="list-style-type: none">1. Polling2. Inspection3. Reviewing4. Echoing

Questions	Choices
The quick design of a software that is visible to end users leads to _____.	<ol style="list-style-type: none"><li data-bbox="1179 182 1403 277">1. iterative model<li data-bbox="1179 309 1403 404">2. prototype model<li data-bbox="1179 436 1403 531">3. spiral model<li data-bbox="1179 563 1403 658">4. waterfall model
The reason for the implementation of the cache memory is _____.	<ol style="list-style-type: none"><li data-bbox="1179 706 1695 817">1. To increase the internal memory of the system<li data-bbox="1179 849 1695 960">2. The difference in speeds of operation of the processor and memory<li data-bbox="1179 991 1695 1102">3. To reduce the memory access time and cycle time<li data-bbox="1179 1134 1695 1214">4. To increase the memory access time

Questions	Choices
The recognizing capabilities of NDFSM and DFSM	<ol style="list-style-type: none"><li data-bbox="1185 187 1455 250">1. may be different<li data-bbox="1185 282 1455 345">2. must be different<li data-bbox="1185 377 1455 504">3. must be same<li data-bbox="1185 584 1455 647">4. none of the above
The recurrence relation for the recursive factorial algorithm is (Assume C is any integer constant)	<ol style="list-style-type: none"><li data-bbox="1185 710 1455 774">1. $T(n) = T(n - 2) + C$<li data-bbox="1185 806 1455 869">2. $T(n) = T(n - 1) + C$<li data-bbox="1185 901 1455 964">3. $T(n) = T(n/2) + C$<li data-bbox="1185 996 1455 1060">4. $T(n) = T(n/2 - 1) + C$

Questions	Choices
<p>The relationship between the number of beers consumed (x) and blood alcohol content (y) was studied in 16 male college students by using least squares regression. The following regression equation was obtained from this study:</p> $y = -0.0127 + 0.0180x$ <p>The above equation implies that</p>	<ol style="list-style-type: none"><li data-bbox="1179 182 1695 309">1. each beer consumed increases blood alcohol by 1.27%<li data-bbox="1179 341 1695 499">2. on average it takes 1.8 beers to increase blood alcohol content by 1%<li data-bbox="1179 531 1695 690">3. each beer consumed increases blood alcohol by an average of the amount of 1.8%<li data-bbox="1179 722 1695 849">4. each beer consumed increases blood alcohol by exactly 0.018
The representation of squares, circles, and triangles in a decision tree indicates the following nodes	<ol style="list-style-type: none"><li data-bbox="1179 912 1516 991">1. Chance, Decision, End<li data-bbox="1179 1023 1560 1102">2. Decision, Probability, End<li data-bbox="1179 1134 1516 1214">3. Decision, Chance, End<li data-bbox="1179 1245 1560 1325">4. Probability, Decision, End

Questions	Choices
A. The result of -8+5 using 1's complement algorithm,	<ol style="list-style-type: none">1. 111002. 000113. 100114. 11101
The selling price of a house depends on the following factors. For example, it depends on the number of bedrooms, kitchens, bathrooms, the year of the house was built, and the square footage of the lot. Given these factors, predicting the selling price of the house is	<ol style="list-style-type: none">1. Binary classification2. Multilabel classification3. Simple Linear Regression4. Multiple Linear Regression

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Questions	Choices
<p>The set of all strings over the alphabet {a,b} (including epsilon) is denoted by</p>	<ol style="list-style-type: none">1. $(a+b)^*$2. $(a+b)^{+}$3. $a^{+}b^{+}$4. a^*b^*
<p>The situation wherein the data of operands are not available is called _____</p>	<ol style="list-style-type: none">1. Data hazard2. Stock3. Deadlock4. Structural hazard

Questions	Choices
The spatial aspect of the locality of reference means _____	<ol style="list-style-type: none"><li data-bbox="1163 180 1702 298">1. That the recently executed instruction is executed again next<li data-bbox="1163 330 1657 447">2. That the recently executed won't be executed again<li data-bbox="1163 463 1657 580">3. That the instruction executed will be executed at a later time<li data-bbox="1163 596 1715 758">4. That the instruction in close proximity to the instruction executed will be executed in future
The structure of the database in a formal language acceptable by the DBMS is represented by -----	<ol style="list-style-type: none"><li data-bbox="1163 815 1455 901">1. Database Schema<li data-bbox="1163 917 1455 1002">2. Conceptual Schema<li data-bbox="1163 1018 1410 1104">3. Internal Schema<li data-bbox="1163 1120 1410 1206">4. External Schema

Questions	Choices
The task of creating an analytical sandbox involving Extraction, Transformation and Loading is part of ____	1. Data Discovery 2. Data Preparation 3. Model Planning 4. Model Designing
The technique which is not used by the decision tree to avoid overfitting is ____.	1. Naïve bayes 2. Pre-pruning 3. Post-pruning 4. Ensemble – Random forest

Questions	Choices
The temporal aspect of the locality of reference means _____	<ol style="list-style-type: none"><li data-bbox="1156 182 1684 301">1. That the recently executed instruction won't be executed soon<li data-bbox="1156 325 1684 444">2. That the recently executed instruction is temporarily not referenced<li data-bbox="1156 468 1684 587">3. That the recently executed instruction will be executed soon again<li data-bbox="1156 610 1684 730">4. That the adjacent item of the recently executed instruction will be executed soon
The time complexity for Naive Bayes classifier for n feature, L class data is	<ol style="list-style-type: none"><li data-bbox="1156 817 1684 888">1. $n*L$<li data-bbox="1156 960 1684 1031">2. $O(n+L)$<li data-bbox="1156 1055 1684 1142">3. $O(n*L)$<li data-bbox="1156 1166 1684 1237">4. $O(n/L)$

Questions	Choices
The time complexity of each point is pushed into the stack once, each point is removed from the stack at most once in Graham scan is	1. $O(N)$ 2. $O(N \log N)$ 3. $O(1)$ 4. $O(\log N)$
The total amount of information contained in digital media is called	1. Digital Universe 2. Information Commons 3. Source of Data 4. Data Science

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Questions	Choices
The transfer between CPU and Cache is _____	<ol style="list-style-type: none">1. Block transfer2. Word transfer3. Set transfer4. Associative transfer
The traveling salesman problem involves n cities with paths connecting the cities. The time taken for traversing through all the cities, without knowing in advance the length of a minimum tour, is _____	<ol style="list-style-type: none">1. $O(n)$2. $O(n^2)$3. $O(n!)$4. $O(n/2)$

Questions	Choices
<p>The “Turing Machine” showed that you could use a/an ____ system to program any algorithmic task.</p>	<ol style="list-style-type: none">1. binary2. electro-chemical3. recursive4. semantic
<p>The Epsilon-Closure of any state q will contain the state _____ irrespective of q.</p>	<ol style="list-style-type: none">1. q2. Epsilon3. p4. Final state

Questions	Choices
<p>These computer uses the stored-program concept. Memory is used to store both program and data instructions and central processing unit (CPU) gets instructions and/ or data from memory. CPU, decodes the instructions and then sequentially performs them.</p>	<ol style="list-style-type: none"><li data-bbox="1170 182 1596 245">1. Single Program Multiple Data (SPMD)<li data-bbox="1170 277 1372 341">2. Flynn's taxonomy<li data-bbox="1170 372 1462 436">3. Von Neumann Architecture<li data-bbox="1170 468 1394 499">4. Harvard architecture <ol style="list-style-type: none"><li data-bbox="1170 547 1664 610">1. Delete the last element of the list<li data-bbox="1170 658 1664 722">2. Delete the first element of the list<li data-bbox="1170 753 1596 880">3. Add an element after the last element of the list<li data-bbox="1170 912 1686 1039">4. Interchange the first two elements of the list

Questions	Choices
To execute all loops at their boundaries and within their operational bounds is an example of	<p>1. Black Box Testing</p> <p>2. Alpha Testing</p> <p>3. Recovery Testing</p> <p>4. White Box Testing</p>
To view only the first 10 rows of the data frame 'myTable', which of the following functions should be used in R?	<p>1. ncol(myTable, 10)</p> <p>2. nrow(myTable, 10)</p> <p>3. head(myTable, 10)</p> <p>4. tail(myTable, 10)</p>

Questions	Choices
To which of the following depth does the alpha-beta pruning can be applied?	1. 10 states 2. 8 States 3. Any depth 4. 6 States
Trace the output of the following snippet > x <- c(2,1,8,3) > x+c(1,2,3) [1] _____	1. 3 3 11 3 2. 3 3 11 4 3. 20 4. Warning - Incompatible length cannot be added

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Questions	Choices
Transport Layer Security (TLS) makes use of a _____ to expand secrets into blocks of data for purposes of key generation or validation.	<ol style="list-style-type: none">1. pseudorandom function2. arithmetic function3. binomial function4. Poisson function

Questions	Choices
Two balanced binary trees are given with m and n elements, respectively. They can be merged into a balanced binary search tree in _____ time.	1. $O(m*n)$ 2. $O(m+n)$ 3. $O(m*\log n)$ 4. $O(m*\log(m+n))$
Type-1 hypervisor is also called as	1. bare metal hypervisor 2. hosted hypervisor 3. type-0 hypervisor 4. direct hypervisor
Uncertainty arises in the Wumpus world because the agent's sensors give only _____	1. Full & Global information 2. Partial & Global Information 3. Partial & local Information 4. Full & local information

Questions	Choices
Uncertainty arises in the Wumpus world because the agent's sensors give only _____.	1. Full & Global information 2. Partial & Global Information 3. Partial & local Information 4. Full & local information
Uniformed-Cost Search expands the node n Heuristic cost with the	1. Lowest path cost 2. 3. Highest path cost 4. Average path cost

Questions	Choices
Verification is _____.	<ol style="list-style-type: none"><li data-bbox="1118 187 1711 314">1. Making sure that it is what the user really wants<li data-bbox="1118 361 1711 472">2. Checking that we are building the right system<li data-bbox="1118 495 1711 631">3. Checking that we are building the system right<li data-bbox="1118 663 1711 758">4. Performed by an independent test team
Weakness in an information system, system security procedures, internal controls, or implementation that could be exploited or triggered by a threat source is known as _____	<ol style="list-style-type: none"><li data-bbox="1118 812 1711 891">1. Threat<li data-bbox="1118 923 1711 1002">2. Risk<li data-bbox="1118 1034 1711 1114">3. Vulnerability<li data-bbox="1118 1145 1711 1225">4. Adversary

Questions	Choices
What are the four dimensions of Dependability?	<p>1. Usability, Reliability, Security, Flexibility</p> <p>2. Availability, Reliability, Maintainability, Security</p> <p>3. Availability, Reliability, Security, Safety</p> <p>4. Security, Safety, Testability, Usability</p>
What if several points on same edge of convex hull in Graham Scan Algorithm	<p>1. include all of them in the increasing distance from P_i</p> <p>2. Just pick the one with maximum distance from P_i</p> <p>3. Ignore the points and move on to pick the next point</p> <p>4. Include all the points</p>

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Questions	Choices
What is a geom in the ggplot2 system?	<ol style="list-style-type: none">1. a plotting object like point, line, or other shape2. a method for making conditioning plots3. a method for mapping data to attributes like colour and size4. a statistical transformation

Questions	Choices
What is a heuristic function?	<p>1. A function to solve mathematical problems</p> <p>2. A function which takes parameters of type string and returns an integer value</p> <p>3. A function whose return type is nothing</p> <p>4. A function that maps from problem state descriptions to measures of desirability</p>

Questions	Choices
What is a node-link diagram?	<ol style="list-style-type: none"><li data-bbox="1170 187 1641 345">1. A visualization that shows the frequency of words in a text document<li data-bbox="1170 377 1641 504">2. A visualization that shows the geographic location of data points<li data-bbox="1170 536 1641 695">3. A visualization that shows the relationships between nodes and links in a network<li data-bbox="1170 726 1641 853">4. A visualization that shows the changes in data over time
What is Artificial Intelligence?	<ol style="list-style-type: none"><li data-bbox="1170 917 1596 1044">1. Programming with your own intelligence<li data-bbox="1170 1075 1596 1202">2. Putting your Intelligence into Computer<li data-bbox="1170 1234 1394 1298">3. Playing a Game<li data-bbox="1170 1329 1596 1393">4. Making a Machine Intelligent

Questions	Choices
What is average time complexity of randomized quick sort	<p>1. $O(n \log n)$</p> <p>2. $O(n^2)$</p> <p>3. $O(n^2 \log n)$</p> <p>4. $O(n \log n^2)$</p>
What is state space?	<p>1. The whole problem</p> <p>2. Your Definition to a problem</p> <p>3. Representing your problem with variable and parameter</p> <p>4. Problem you design</p>

Questions	Choices
What is the appropriate pairing of items in the two columns listing various activities encountered in a software life cycle?	1. P-3, Q-2, R-4, S-1 2. P-2, Q-3, R-1, S-4 3. P-3, Q-2, R-1, S-4 4. P-2, Q-3, R-4, S-1
P. Requirements Capture	1. Module
Development and Integration	2. P-2, Q-3, R-1, S-4
Q. Design	2. Domain Analysis
R. Implementation	3. Structural and Behavioral Modeling
S. Maintenance	4. Performance Tuning
What is the consequence between a node and its predecessors while creating bayesian network?	1. Functionally dependent 2. Dependant 3. Conditionally independent 4. Both Conditionally dependant & Dependant

Questions	Choices
What is the consequence between a node and its predecessors while creating Bayesian network?	1. Functionally dependent 2. Dependent 3. Conditionally independent 4. Both conditionally dependent & Dependent
What is the correct formula to calculate the cost of a cloud computing deployment?	1. $\text{CostCLOUD} = \Sigma(\text{UnitCostCLOUD} / (\text{Revenue} + \text{CostCLOUD}))$ 2. $\text{CostCLOUD} = \Sigma(\text{UnitCostCLOUD} / (\text{Revenue} - \text{CostCLOUD}))$ 3. $\text{CostCLOUD} = \Sigma(\text{UnitCostCLOUD} \times (\text{Revenue} - \text{CostCLOUD}))$ 4. $\text{CostCLOUD} = \Sigma(\text{UnitCostCLOUD} \times (\text{Revenue} + \text{CostCLOUD}))$

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Questions	Choices
What is the correct way of writing a simple linear regression equation in the formula parameter in R?	<ol style="list-style-type: none">1. Salary = YearsExperience2. Salary ~ YearsExperience3. Salary == YearsExperience4. Salary = a * YearsExperience + b

Questions	Choices
What is the cost involved for B2(outer loop) in the code which calculating time complexity sum = 0; for(i=0; i<N; i++) B2 for(j=0; j<N; j++) sum += arr[i][j];	1. B2 2. B2*(N+1) 3. B2*N*(n+1) 4. B2*N^2
What is the expansion if PEAS in task environment?	1. Peer, Environment, Actuators, Sense 2. Perceiving, Environment, Actuators, Sensors 3. Performance, Environment, Actuators, Sensors 4. Performance, Entity, Agent, Sensor

Questions	Choices
What is the full form of JESS in Expert System Technology?	1. Java Expert System Shell 2. Javascript Expert System Shell 3. Java Expert Sub System 4. Javascript Expert Sub System
What is the high speed memory between the main memory and the CPU called?	1. Register Memory 2. Cache Memory 3. Storage Memory 4. Virtual Memory

Questions	Choices
What is the main advantage of backward state-space search?	1. Cost 2. Actions 3. Relevant Actions 4. Time
What is the problem space of means-end analysis?	1. An initial state and one or more goal states 2. One or more initial states and one goal state 3. One or more initial states and one or more goal state 4. One initial state and one goal state

Questions	Choices
What is the purpose of using randomized quick sort over standard quick sort	<p>1. so as to avoid worst case time complexity</p> <p>2. so as to avoid worst case space complexity</p> <p>3. to improve accuracy of input</p> <p>4. to improve average time complexity</p>
What is the standard way to import matplotlib's pyplot library in python?	<p>1. import matplot as plt</p> <p>2. import matplotlib.pyplot as plt</p> <p>3. from matplotlib import pyplot as plt</p> <p>4. import matplotlib pyplot as plt</p>

Questions	Choices
What is the term used for describing the judgmental or common sense part of problem solving?	1. Heuristic 2. Critical 3. Value Based 4. Analytical

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Questions	Choices
What is the total number of quantification available in artificial intelligence?	1. 4 2. 3 3. 1 4. 2 1. $O(N)$ 2. $O(N \log N)$
What is the worst case complexity of quick hull	3. $O(N^2)$ 4. $O(\log N)$

Questions	Choices
What is $\{1,2\}^*$ n $\{2,3\}^*$	1. $\{12,2\}^*$ 2. $\{23,2\}^*$ 3. $\{2\}^*$ 4. $\{12,23\}^*$
What kind of environment is a crossword puzzle?	1. Static 2. Dynamic 3. semi-dynamic 4. stochastic
What technique is best for showing relationships between variables in a 2D space?	1. Scatter plots 2. Bar graphs 3. Line graphs 4. Pie charts

Questions	Choices
What technique should be used to visualize large amounts of data points in a compact and readable format?	<ol style="list-style-type: none"><li data-bbox="1192 184 1349 255">1. Pie charts<li data-bbox="1192 295 1349 366">2. Heat maps<li data-bbox="1192 406 1349 477">3. Bubble charts<li data-bbox="1192 517 1349 588">4. Box plots
What type of visualization is best for comparing multiple data sets over time and highlighting outliers?	<ol style="list-style-type: none"><li data-bbox="1192 652 1349 723">1. Box plots<li data-bbox="1192 763 1349 834">2. Line graphs<li data-bbox="1192 874 1349 945">3. Scatter plots<li data-bbox="1192 985 1349 1056">4. Bar graphs

Questions	Choices
What type of visualization is best for comparing the size of multiple data sets?	<ul style="list-style-type: none"><li data-bbox="1192 180 1388 255">1. Scatter plots<li data-bbox="1192 292 1388 366">2. Bar graphs<li data-bbox="1192 403 1388 477">3. Line graphs<li data-bbox="1192 514 1388 588">4. Bubble charts
What type of visualization is best suited for showing how a variable change over time?	<ul style="list-style-type: none"><li data-bbox="1192 652 1388 726">1. Bar graphs<li data-bbox="1192 763 1388 837">2. Line graphs<li data-bbox="1192 874 1388 949">3. Scatter plots<li data-bbox="1192 985 1388 1060">4. Pie charts

Questions	Choices
What type of visualization is best suited for showing the distribution of a single categorical variable?	<p>1. Bar chart</p> <p>2. Pie chart</p> <p>3. Scatter plot</p> <p>4. Line chart</p>

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Questions	Choices
What type of visualization is best suited for showing the distribution of a single continuous variable across multiple categories?	<ol style="list-style-type: none">1. Box plot2. Violin plot3. Scatter plot4. Line chart

Questions	Choices
What type of visualization is best suited for showing the distribution of a single continuous variable?	<ol style="list-style-type: none"><li data-bbox="1215 180 1349 260">1. Box plot<li data-bbox="1215 292 1349 371">2. Histogram<li data-bbox="1215 403 1349 450">3. Line chart<li data-bbox="1215 514 1349 588">4. Scatter plot
What type of visualization is used to show the distribution of a data set?	<ol style="list-style-type: none"><li data-bbox="1215 641 1349 720">1. Box plots<li data-bbox="1215 752 1349 831">2. Line graphs<li data-bbox="1215 863 1349 910">3. Scatter plots<li data-bbox="1215 958 1349 1033">4. Bar graphs

Questions	Choices
What type of visualization technique is best suited for comparing two or more continuous variables?	<ol style="list-style-type: none"><li data-bbox="1215 180 1394 260">1. Scatter plot<li data-bbox="1215 292 1394 371">2. Line chart<li data-bbox="1215 403 1394 482">3. Bar chart<li data-bbox="1215 514 1394 593">4. Histogram
What type of visualization technique is best suited for showing relationships between multiple categorical variables?	<ol style="list-style-type: none"><li data-bbox="1215 657 1394 736">1. Dot plot<li data-bbox="1215 768 1394 847">2. Heatmap<li data-bbox="1215 879 1394 958">3. Mosaic plot<li data-bbox="1215 990 1394 1069">4. Pie chart

Questions	Choices
What type of visualization technique is best suited for showing the flow of a single variable over time?	<ol style="list-style-type: none"><li data-bbox="1215 180 1372 260">1. Line chart<li data-bbox="1215 292 1372 371">2. Bar chart<li data-bbox="1215 403 1372 482">3. Scatter plot<li data-bbox="1215 514 1372 593">4. Pie chart
What will be output for the following Python code? <pre data-bbox="473 810 1012 969">import pandas as pd import numpy as np s = pd.Series(np.random.randn(2)) print(s.size)</pre>	<ol style="list-style-type: none"><li data-bbox="1215 641 1237 720">1. 0<li data-bbox="1215 752 1237 831">2. 2<li data-bbox="1215 863 1237 942">3. 3<li data-bbox="1215 974 1237 1053">4. 1

Questions	Choices
<p>What will be output for the following Python code?</p> <pre>import pandas as pd import numpy as np s = pd.Series(np.random.randn(4)) print(s.ndim)</pre>	<p>1. 0 2. 3. 3 4. 1</p>
<p>What will be output for the following Python code?</p> <pre>import pandas as pd s = pd.Series([1,2,3,4,5],index = ['a','b','c','d','e']) print s['a']</pre>	<p>1. 1 2. 2 3. 3 4. 4</p>

Questions	Choices
What will be syntax for pandas dataframe in Python?	<ol style="list-style-type: none">1. <code>pandas.DataFrame(data, index, dtype, copy)</code>2. <code>pandas.DataFrame(data, index, rows, dtype, copy)</code>3. <code>pandas_DataFrame(data, index, columns, dtype, copy)</code>4. <code>pandas.DataFrame(data, index, columns, dtype, copy)</code>

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Questions	Choices
<p>What will be the output of the following Java program?</p> <pre>1 class exception_handling 2 { 3 public static void main(String args[]) 4 { 5 try 6 { 7 System.out.print("Hello" + " " + 1 / 0); 8 } 9 catch(ArithmeticException e) 10 { 11 System.out.print("World"); 12 } 13 } 14 }</pre>	<p>1. Hello</p> <p>2. World</p> <p>3. Hello World</p> <p>4. HelloWorld</p>

Questions	Choices
	1. $O(n^2)$
What will be the time complexity of code given (line separation indicated by ",") sum=0, for(i=1;i<=n;i*=2), for(j=1;j<=n;j++), sum++	2. $O(n \log n)$
	3. $O(n)$
	4. $O(n \log \log n)$
	1.
	dot
	2.
When a state in a FA has self loop its regular expression will have	star
	3.
	binary ⁺
	4. unary +

Questions	Choices
When do FORD Fulkerson algorithm fails	1. rational number 2. irrational Number 3. integer 4. None of these
When more than one independent variable is used to model a target variable, the method is called as ____	1. Coefficient of Determination 2. Multilinear Classification 3. Multiple Regression 4. Dummy Variable Trap
When the Graham scan algorithm terminates, stack S contains exactly the vertices of CH(Q) ,in counterclockwise order of their appearance on the boundary	1. True 2. False 3. 4.

Questions	Choices
	1. automata
When there are infinite distinguishable strings then there cannot be a	2. finite automata
	3. regular expression
	4. both finite automata and regular expression
When there is more than one final state in the reduced FA, then its regular expression will contain _____ operator surely	1. dot
	2. star
	3. binary +
	4. unary +

Questions	Choices
When using Branching, the usual sequencing of the PC is altered. A new instruction is loaded which is called _____	<ol style="list-style-type: none">1. Branch target2. Loop target3. Forward target4. Jump instruction
When we concatenate two languages L1 and L2 recognized by machine M1 and M2 we obtain a machine with final state same as that of _____	<ol style="list-style-type: none">1. M22. M1 and M23. M1 or M24. M1

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Questions	Choices
When you choose a subset of population as sample that atleast one common characteristic, it is called _____	<ol style="list-style-type: none">1. Systematic Sampling2. Stratified Sampling3. Random Sampling4. Cluster Sampling
Whenever the data is found in the cache memory it is called as _____	<ol style="list-style-type: none">1. HIT2. MISS3. FOUND4. ERROR

Questions	Choices
Where does fog computing reside in a company's network?	1. At remote servers 2. In the Cloud 3. In a local network 4. At the edge
Where does the bayes rule can be used?	1. Solving queries 2. Increasing complexity 3. Decreasing complexity 4. Answering probabilistic query
Where does the degree of belief is applied?	1. Propositions 2. Literals 3. Variables 4. Statements

Questions	Choices
Which model in system modelling depicts the static nature of the system?	<ol style="list-style-type: none"><li data-bbox="1185 187 1432 255">1. Behavioral Model<li data-bbox="1185 287 1394 355">2. Context Model<li data-bbox="1185 387 1410 455">3. Structural Model<li data-bbox="1185 487 1349 555">4. Data Model
Which of the following is NOT an advantage of using shared, dynamically linked libraries as opposed to using statically linked libraries ?	<ol style="list-style-type: none"><li data-bbox="1147 620 1657 747">a) Smaller sizes of executable files<li data-bbox="1185 779 1709 890">2. Lesser overall page fault rate in the system<li data-bbox="1185 922 1522 1001">3. Faster program startup<li data-bbox="1185 1033 1702 1191">4. a) Existing programs need not be re-linked to take advantage of newer versions of libraries

Questions	Choices
Which of the following is type of unsupervised learning?	<ol style="list-style-type: none"><li data-bbox="1170 176 1327 255">1. clustering<li data-bbox="1170 366 1349 445">2. association<li data-bbox="1170 461 1664 541">3. both clustering and association<li data-bbox="1170 557 1394 636">4. None of these
Which phase is not part of the software lifecycle model?	<ol style="list-style-type: none"><li data-bbox="1170 779 1282 858">1. Testing<li data-bbox="1170 874 1327 953">2. Abstraction<li data-bbox="1170 969 1282 1049">3. Coding<li data-bbox="1170 1064 1349 1144">4. Maintenance

Questions	Choices
Which algorithm is used for solving temporal probabilistic reasoning?	1. Hill-climbing search 2. Hidden markov model 3. Depth-first search 4. Breadth-first search

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Questions	Choices
Which algorithm places two actions into a plan without specifying which should come first?	<ol style="list-style-type: none">1. Full-order planner2. Total-order planner3. Semi-order planner4. Partial-order planner

Questions	Choices
Which clause of an SQL query projects Column Names ?	1. SELECT 2. FROM 3. GROUP BY 4. ORDER BY
Which entity of the HDFS architecture manages the file system namespace and controls access to files?	1. Name node 2. Client 3. Data node 4. Slave node

Questions	Choices
Which environment is called as semi dynamic?	1. Environment does not change with the passage of time 2. Agent performance changes 3. Environment will be changed 4. Environment does not change with the passage of time, but Agent performance changes
Which function has a higher growth factor?	1. logarithmic 2. numeric raised by variable($N^...$) 3. variable raised by number ($2^...$) 4. All of these

Questions	Choices
Which is true for Decision theory?	1. Decision Theory = Probability theory + utility theory 2. Decision Theory = Inference theory + utility theory 3. Decision Theory = Uncertainty + utility theory 4. Decision Theory = Probability theory + preference
Which is used to compute the truth of any sentence?	1. Semantics of propositional logic 2. Alpha-beta pruning 3. First-order logic 4. Both Semantics of propositional logic & Alpha-beta pruning

Questions	Choices
Which line of code would create a line plot in form of red squares with $x = x$ and $y = y$?	1. ax.plot(x, y, 'red', marker = 'square') 2. ax.plot(x, y, 'R-', marker = 'sqr' 3. ax.plot(x, y, 'r', 's') 4. ax.plot(x, y, 'r-', marker = 's')
Which method is mainly used for automated reasoning?	1. Backward chaining 2. Forward chaining 3. Logic programming 4. Parallel programming

Questions	Choices
Which of the following framework activities are carried out in Adaptive Software Development (ASD)?	<ol style="list-style-type: none">1. Assumption, Association, Learning2. The investigation, Strategy, Coding3. Requirements gathering, Adaptive cycle planning, Iterative development4. Process design, Prototyping, Testing

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Questions	Choices
Which of the following algorithms is most suitable for the multiplication of the numbers, 00111110 and 1110?	<ol style="list-style-type: none">1. Booth's Algorithm2. Modified Booth's algorithm3. Sign Magnitude algorithm4. Normal binary multiplication
Which of the following risks are derived from the software or hardware technologies that are used to develop the system?	<ol style="list-style-type: none">1. Managerial risks2. Technology risks3. Estimation risks4. Organizational risks

Questions	Choices
Which of the following advanced visualization techniques is most appropriate for exploring large datasets?	<ol style="list-style-type: none"><li data-bbox="1192 184 1500 266">1. Geospatial mapping<li data-bbox="1192 295 1529 377">2. Network visualization<li data-bbox="1192 406 1439 488">3. Sankey diagram<li data-bbox="1192 517 1394 599">4. Bubble chart
Which of the following algorithm can't be used with linked list?	<ol style="list-style-type: none"><li data-bbox="1192 652 1372 734">1. merge sort<li data-bbox="1192 763 1394 845">2. insertion sort<li data-bbox="1192 874 1394 941">3. linear search<li data-bbox="1192 969 1394 1052">4. binary search

Questions	Choices
<p>Which of the following algorithm is applicable for solving temporal probabilistic reasoning?</p>	<ol style="list-style-type: none"><li data-bbox="1190 182 1538 261">1. Hidden Markov model<li data-bbox="1190 293 1650 372">2. Hill climbing search algorithm<li data-bbox="1190 404 1628 484">3. Depth-first search algorithm<li data-bbox="1190 515 1650 595">4. Breadth-first search algorithm
<p>Which of the following are correct ways to increase security in Fog computing?</p> <ul style="list-style-type: none"><li data-bbox="480 849 763 880">I. Decentralization<li data-bbox="480 888 875 920">II. Network Segmentation<li data-bbox="480 928 741 960">III. Edge Security	<ol style="list-style-type: none"><li data-bbox="1190 642 1291 722">1. I only<li data-bbox="1190 745 1358 825">2. Both I and II<li data-bbox="1190 849 1381 928">3. Both II and III<li data-bbox="1190 944 1347 1023">4. I, II and III

Questions	Choices
<p>Which of the following are disadvantages of fog computing?</p> <ul style="list-style-type: none">I. Congestion may occur between the host and the fog node due to increased trafficII. Power consumption increases when another layer is placed between the host and the cloud.III. Scheduling tasks between host and fog nodes along with fog nodes and the cloud is simple.	<ul style="list-style-type: none">1. I only2. Both I and II3. Both II and III4. I, II and III
<p>Which of the following are equivalent?</p> <ul style="list-style-type: none">1. $\neg P \vee Q$2. $P \supset Q$3. $\neg Q \supset \neg P$4. P or $\neg Q$	<ul style="list-style-type: none">1. Only 1 and 22. Only 23. Only 1, 2 and 44. Only 1, 2 and 3

Questions	Choices
Which of the following are the proposition symbols in Artificial Intelligence?	1. true, false, and null 2. true 3. false 4. true and false
Which of the following artificial intelligence algorithm enforces a fixed depth limit on nodes?	1. Bidirectional search 2. Depth-first search 3. Iterative deepening search 4. Depth-limited search

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Questions	Choices
Which of the following can be used to evaluate the performance of a Classification Model ?	<ol style="list-style-type: none">1. Confusion Matrix2. Context-Free Grammar3. Word Cloud4. Gradient Descent
Which of the following can improve the performance of an AI agent?	<ol style="list-style-type: none">1. Perceiving2. Observing3. Learning4. Imitating

Questions	Choices
Which of the following code retrieves session ID specified by the client in programming using Servlets?(Objects in the options closely represent the classes from which they are created)	<ol style="list-style-type: none"><li data-bbox="1064 180 1558 260">1. <code>request.getRequestedSessionId()</code><li data-bbox="1064 355 1513 434">2. <code>response.getRequestedSessionId()</code><li data-bbox="1064 530 1491 609">3. <code>Header.getRequestedSessionId()</code><li data-bbox="1064 688 1558 768">4. <code>request.getRequestedClientSessionId()</code>
Which of the following concurrency control protocols ensures both conflict serializability and freedom from deadlock?	<ol style="list-style-type: none"><li data-bbox="1064 879 1423 958">1. 2-phase locking protocol<li data-bbox="1064 990 1221 1069">2. Strict 2PL<li data-bbox="1064 1101 1244 1180">3. <code>Timestamp</code><li data-bbox="1064 1212 1311 1291">4. Both (a) and (c)

Questions	Choices
Which of the following cross validation versions is suitable quicker cross-validation for very large datasets with hundreds of thousands of samples?	<ol style="list-style-type: none"><li data-bbox="1057 184 1394 255">1. k-fold cross-validation<li data-bbox="1057 295 1529 366">2. Leave-one-out cross-validation<li data-bbox="1057 406 1304 461">3. Holdout method<li data-bbox="1057 501 1304 572">4. Dropout method
Which of the following divides the input domain into classes containing data?	<ol style="list-style-type: none"><li data-bbox="1057 652 1394 723">1. Equivalent partitioning<li data-bbox="1057 763 1439 834">2. Environment partitioning<li data-bbox="1057 874 1327 929">3. Procedure division<li data-bbox="1057 969 1349 1041">4. Compilation division

Questions	Choices
Which of the following function is used to find the feasibility of a complete game tree?	1. Transposition 2. Evaluation function 3. Alpha-beta pruning 4. Hill Climbing
Which of the following functions is used for generating histogram in R?	1. hist() 2. histogram() 3. hist_chart() 4. histplot()

Questions	Choices
Which of the following graph can be used for simple summarization of data?	1. Scatterplot 2. Overlaying 3. Barplot 4. Histogram
Which of the following implementations is ideal for returning the element at a given position from a list?	1. singly linked list 2. doubly linked list 3. array implementation 4. doubly circular linked list

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Questions	Choices
Which of the following implements stack operation for the purpose of searching the states?	<ol style="list-style-type: none">1. Depth-limited search2. Breadth-first search3. Depth-first search4. Best First Search

Questions	Choices
Which of the following is a benefit of interactive data visualization?	<ol style="list-style-type: none"><li data-bbox="1147 184 1693 266">1. It reduces the complexity of data.<li data-bbox="1147 290 1693 414">2. It helps users to explore the data in depth.<li data-bbox="1147 438 1693 561">3. It is a passive way of consuming data.<li data-bbox="1147 585 1693 683">4. It only works with small datasets.
Which of the following is a geospatial data visualization technique?	<ol style="list-style-type: none"><li data-bbox="1147 723 1693 815">1. Scatter plot<li data-bbox="1147 839 1693 931">2. Word cloud<li data-bbox="1147 955 1693 1047">3. Choropleth map<li data-bbox="1147 1071 1693 1112">4. Bar chart

Questions	Choices
Which of the following is a popular tool for creating advanced visualizations?	1. R 2. Excel 3. Python 4. All of these
Which of the following is a tool for creating interactive data visualizations?	1. Microsoft Word. 2. Adobe Photoshop. 3. Tableau. 4. Google Sheets.

Questions	Choices
Which of the following is a wide-column type of database?	1. ORACLE 2. IBM DB2 3. CASSANDRA 4. MS ACCESS
Which of the following is among the primary uses of cloud computing?	1. security 2. data storage 3. data privacy 4. operational cost

Questions	Choices
Which of the following is an advantage of using interactive data visualization tools like Tableau?	<ol style="list-style-type: none"><li data-bbox="1147 176 1551 303">1. They require minimal data preparation.<li data-bbox="1147 334 1574 461">2. They can only create simple visualizations.<li data-bbox="1147 493 1574 620">3. They allow for real-time data analysis.<li data-bbox="1147 652 1551 779">4. They only work on desktop computers.
Which of the following is an attribute of Strong or Generalized AI?	<ol style="list-style-type: none"><li data-bbox="1147 810 1619 937">1. Can perform specific tasks, but cannot learn new ones<li data-bbox="1147 969 1529 1096">2. Operate with human-level consciousness<li data-bbox="1147 1128 1551 1255">3. Perform independent tasks<li data-bbox="1147 1287 1641 1414">4. Cannot teach itself new strategies

Questions	Choices
Which of the following is an example of an unsupervised learning problem?	<ol style="list-style-type: none">1. Predicting the stock market2. Recommending products to users3. Spam filtering4. Sentiment analysis

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Questions	Choices
Which of the following is an example of geospatial data visualization?	<ol style="list-style-type: none">1. A bar chart showing the sales revenue by region.2. A scatter plot showing the correlation between two variables.3. A map showing the population density by state.4. A heat map showing the website traffic by time of day.

Questions	Choices
Which of the following is an example of interactive data visualization?	<ol style="list-style-type: none"><li data-bbox="1163 187 1432 266">1. A static bar chart.<li data-bbox="1163 298 1612 425">2. A scatter plot with a slider for adjusting the time range.<li data-bbox="1163 457 1343 536">3. A pie chart.<li data-bbox="1163 568 1711 679">4. A line graph with different colors for each line.
Which of the following is an intractable algorithm functionalities?	<ol style="list-style-type: none"><li data-bbox="1163 742 1343 822">1. exponential<li data-bbox="1163 853 1657 933">2. numeric raised by variable(N^{\dots})<li data-bbox="1163 964 1657 1044">3. variable raised by number (2^{\dots})<li data-bbox="1163 1075 1343 1155">4. All of these

Questions	Choices
Which of the following is correct with respect to the Two-phase commit protocol?	<ol style="list-style-type: none">1. Ensures serializability2. Prevents Deadlock3. Detects Deadlock4. Recover from Deadlock
Which of the following is effective in data extraction, transformation and loading?	<ol style="list-style-type: none">1. Hadoop2. MS ACCESS3. Tableau4. Pyplot

Questions	Choices
Which of the following is implemented on DataFrame to compute the correlation between like-labelled Series contained in different DataFrame objects in Python?	1. corwith 2. corwit 3. corrwith 4. corwidth
Which of the following is incorrect limitations of Expert Systems?	1. Limitations of the technology 2. Difficult knowledge acquisition 3. Easy to maintain 4. High development costs

Questions	Choices
Which of the following is NOT a common type of advanced visualization technique used in geospatial analysis?	<ol style="list-style-type: none"><li data-bbox="1163 187 1432 266">1. Choropleth map<li data-bbox="1163 345 1432 425">2. Dot density map<li data-bbox="1163 441 1567 520">3. Proportional symbol map<li data-bbox="1163 552 1500 631">4. Network visualization
Which of the following is NOT a common type of advanced visualization technique used in predictive modeling?	<ol style="list-style-type: none"><li data-bbox="1163 695 1432 774">1. Cluster analysis<li data-bbox="1163 853 1388 933">2. Decision trees<li data-bbox="1163 964 1432 1044">3. Random forests<li data-bbox="1163 1075 1567 1155">4. Support vector machines

Questions	Choices
Which of the following is NOT a common type of advanced visualization technique?	1. Small multiple 2. Choropleth map 3. Heatmap 4. Multidimensional scaling

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Questions	Choices
Which of the following is NOT a common use case for advanced data visualization techniques?	<ol style="list-style-type: none">1. Dashboarding2. Predictive modelling3. Fraud detection4. Market research

Questions	Choices
Which of the following is NOT a commonly used network visualization technique?	<ol style="list-style-type: none"><li data-bbox="1123 166 1711 277">1. <input checked="" type="checkbox"/> Heat map<li data-bbox="1123 277 1711 388">2. <input type="checkbox"/> Node-link diagram<li data-bbox="1123 388 1711 499">3. <input type="checkbox"/> Adjacency matrix<li data-bbox="1123 499 1711 610">4. <input type="checkbox"/> Sankey diagram
Which of the following is NOT a current application of AI?	<ol style="list-style-type: none"><li data-bbox="1123 714 1711 793">1. <input type="checkbox"/> Self-driving vehicle utilizing computer vision to navigate around objects<li data-bbox="1123 793 1711 904">2. <input type="checkbox"/> Classifying rock samples to identify best places to drill for oil<li data-bbox="1123 904 1711 1015">3. <input type="checkbox"/> Collaborative robots helping humans lift heavy containers<li data-bbox="1123 1015 1711 1126">4. <input checked="" type="checkbox"/> Making precision patient diagnosis and prescribing independent treatment

Questions	Choices
Which of the following is NOT a good way to define AI?	<ol style="list-style-type: none"><li data-bbox="1140 187 1664 393">1. AI is Augmented intelligence and is not intended to replace human intelligence rather extend human capabilities<li data-bbox="1140 425 1664 636">2. AI is the use of algorithms that enable computers to find patterns without human having to hard code them manually<li data-bbox="1140 668 1619 779">3.  AI is all about machine replacing human intelligence<li data-bbox="1140 810 1664 985">4. AI is the application of computing to solve problems in an intelligent way using algorithms
Which of the following is not a necessary feature of an algorithm, as per the definition?	<ol style="list-style-type: none"><li data-bbox="1140 1033 1327 1112">1. definiteness<li data-bbox="1140 1144 1304 1223">2. finiteness<li data-bbox="1140 1255 1327 1334">3. correctness<li data-bbox="1140 1366 1304 1445">4.  efficiency

Questions	Choices
Which of the following is not a potential NLP application?	1. Designing Question Answering System 2. Building a Chatbot 3. Identifying Fraudulent Bank Loan Applications 4. Generating Summary of a Text
Which of the following is not a type of Artificial Intelligence agent?	1. Learning AI agent 2. Goal-based AI agent 3. Simple reflex AI agent 4. Unity-based AI agent

Questions	Choices
Which of the following is not an Integrity constraint ?	1. Not null 2. Unique 3. Check predicate 4. Positive
Which of the following is not supervised learning?	1. PCA 2. Decision Tree 3. Linear Regression 4. Naïve Bayesian

Questions	Choices
Which of the following is the correct extension of the Python file?	1. .python 2. ✓.py 3. .pl 4. .p

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Questions	Choices
Which of the following is the function of an AI Agent?	<p>1. To map the percept sequence to an action</p> <p>2. To map the goal sequence to an action</p> <p>3. To work without direct interference from any external factor like humans</p> <p>4. To map the environment sequence to an action</p>

Questions	Choices
Which of the following is the syntax of Box plot in R?	<p>1. <code>boxplot(x, data, notch, varwidth, names, main)</code></p> <p>2. <code>box_plot(x, data, notch, varwidth, names, main)</code></p> <p>3. <code>plot(x, data, notch, varwidth, names, main)</code></p> <p>4. <code>boxplt(x, data, notch, varwidth, names, main)</code></p>
Which of the following is true in divide and conquer strategy	<p>1. The subproblems cannot be overlapped</p> <p>2. The subproblems can be overlapped</p> <p>3. The subproblems need not be of the same type as the main problem</p> <p>4. The number of subproblems must be even</p>

Questions	Choices
	1. Every subset of a regular set is regular
Which of the following is TRUE?	2. Every finite subset of a non-regular set is regular 3. The union of two non-regular sets is not regular 4. Infinite union of finite sets is regular
	1. Slave Node 2. Master Node 3. Job Tracker 4. Task Tracker
Which of the following is used to schedules jobs and tracks the assign jobs to Task tracker?	

Questions	Choices
Which of the following is useful in traversing a given graph by breadth first search?	1. stack 2. <input checked="" type="checkbox"/> queue 3. set 4. lst
Which of the following is wrong while inserting a node in the beginning of list?	1. Make the new node point to the head pointer of the current list 2. Create a new node using dynamic memory allocation 3. <input checked="" type="checkbox"/> Make the head pointer of the current list point to the new node 4. Make the next pointer of the new node point to current head of the list

Questions	Choices
Which of the following is/are true for FOL?	<p>1. Forward Chaining and Backward Chaining are complete, Resolution Refutation is not</p> <p>2. Resolution Refutation, Forward Chaining and Backward Chaining are complete</p> <p>3. Resolution Refutation is complete, Forward Chaining and Backward Chaining are not</p> <p>4. Forward Chaining and Resolution Refutation are complete, Backward Chaining is not</p>
Which of the following operators is the correct option for power(ab)?	<p>1. $a \wedge b$</p> <p>2. $a^{**}b$</p> <p>3. $a \wedge \wedge b$</p> <p>4. $a \wedge * b$</p>

Questions	Choices
Which of the following package contains servlet classes?	<p>1. <i>javax.servlet</i></p> <p>2. <i>java.servlet.http</i></p> <p>3. <i>java.servlet</i></p> <p>4. <i>javafx.servlet</i></p>

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Questions	Choices
Which of the following problem is not in NP	1. Clique 2. Vertex Cover 3. 2-SAT 4. Circuit Sat
Which of the following regular expression denotes a language comprising of all possible strings over {a,b} of length n where n is a multiple of 3?	1. $(a+b+aa+bb+aba+bba)^*$ 2. $(aaa+bbb)^*$ 3. $\checkmark (a+b)(a+b)(a+b)^*$ 4. $(aaa+ab+a)+(bbb+bb+a)$

Questions	Choices
	1. $r^{(*)} = r^*$
Which of the following regular expression identity is true	2. $(r^*s^*)^* = (r + s)$
	3. $(r + s)^* = r^* + s$
	4. $r^*s^* = r^* + s^*$
	1. $r^{(*)} = r^*$
	2. $(r^*s^*)^* = (r+s)^*$
Which of the following regular expression identity is true?	3. $(r+s)^* = r^* + s^*$
	4. $r^*s^* = r^* + s^*$

Questions	Choices
Which of the following return a subset of the columns of a data frame in R?	<p>1. select</p> <p>2. retrieve</p> <p>3. get</p> <p>4. set</p>
Which of the following search algorithm is optimal and complete when $h(n)$ is consistent	<p>1. Best-first search</p> <p>2.</p> <p>3. Best-first search and depth first search</p> <p>4. A* search</p>

Questions**Choices**

Which of the following search belongs to totally ordered plan search?

1. Forward state-space search
2. Hill-climbing search
3. Depth-first search
4. Breadth-first search

Which of the following search is identical to minimax search?

1. Depth-first
2. Hill-climbing
3. Breadth-first
4. Depth- limited

Questions	Choices
	1. Best-first search 2. Which of the following search method is helpful to find better by learning
Which of the following search removes the branches that can't influence the final decision, and it's equal to minimax search?	3. Meta level state space 4. Greedy Best first search 1. Depth-first 2. Alpha-beta pruning 3. Breadth-first 4. Depth-limited

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Questions	Choices
Which of the following statement is correct?	<p>1. Data Encryption Standard is not a Feistel cipher</p> <p>✓ 2. Data Encryption Standard is a Feistel cipher</p> <p>3. Advanced Encryption Standard is not a Feistel cipher</p> <p>4. Statements (b) and (c).</p>

Questions	Choices
Which of the following statement is not correct?	<p>1. For Data Encryption Standard, data are encrypted in 64-bit blocks using a 56-bit key</p> <p>2. Data Encryption Standard is reasonably efficient in software and very fast and small in hardware</p> <p>3. For Data Encryption Standard, data are encrypted in 56-bit blocks using a 66-bit key</p> <p>4. By encrypting with Data Encryption Standard (DES) three times in a row, triple DES (3DES) is created.</p>

Questions	Choices
<p>Which of the following statement is not correct?</p>	<p>1. Advanced Encryption Standard is a byte-oriented cipher 2. Advanced Encryption Standard is a bit-oriented structure 3. Data Encryption Standard is a bit-oriented structure 4. Both (a) and (c)</p>

Questions	Choices
Which of the following statement is not correct?	<p>1. In Data Encryption Standard, the S-Boxes are essentially random tables that fulfil certain properties.</p> <p>2. In Advanced Encryption Standard, the S-Boxes have a strong algebraic structure.</p> <p>3. Statement (a) is true, but (b) is false</p> <p>4. Both Statements (a) and (b) are true.</p> <p>3</p>

Questions	Choices
Which of the following statement is not correct?	<p>1. A firewall provides a location for monitoring security-related events.</p> <p>2. Audits and alarms can be implemented on the firewall system.</p> <p>3. A firewall can serve as the platform for IPsec</p> <p>4. The firewall may protect fully against internal threats, such as a disgruntled employee or an employee who unwittingly cooperates with an external attacker.</p>

Questions**Choices**

Which of the following statement is true?

1.

NFA is more powerful than DFA

2.

DFA is more powerful than NFA

3.

NFA and DFA have equal power

4.

All the are true

Questions	Choices
<p>Which of the following statement(s) is/are correct?</p> <p>(a) The output of a scanner is groups of characters.</p> <p>(b) Total number of tokens in <code>printf("i=%d, &i=%x,j=%d", i, &l,j);</code> are 12.</p> <p>(c) Symbol table can be implemented by using binary search tree</p>	<ol style="list-style-type: none"><li data-bbox="1118 207 1253 239">1.<li data-bbox="1118 250 1253 282">Only (b)<li data-bbox="1118 318 1253 350">2.<li data-bbox="1118 361 1253 393">Both (b) and (c)<li data-bbox="1118 430 1253 461">3.<li data-bbox="1118 472 1253 504">(a), (b), and (c)<li data-bbox="1118 541 1253 572">4.<li data-bbox="1118 584 1253 615">(a), (b)
<p>Which of the following step is performed by data scientist AFTER acquiring the data?</p>	<ol style="list-style-type: none"><li data-bbox="1118 695 1253 726">1.<li data-bbox="1118 737 1253 769">Data Integration<li data-bbox="1118 806 1253 837">2.<li data-bbox="1118 849 1253 880">Data Replication<li data-bbox="1118 917 1253 949">3.<li data-bbox="1118 960 1253 991">Data Cleansing<li data-bbox="1118 1028 1253 1060">4.<li data-bbox="1118 1071 1253 1102">Data Formulation

Questions	Choices
Which of the following stores Data as Nodes and Edges?	<p>1. Amazon Neptune</p> <p>2. AWS</p> <p>3. Cassandra</p> <p>4. MS Word</p>
Which of the following strings is not generated by the following grammar? S ? SaSbS e	<p>1. aabb</p> <p>2. abab</p> <p>3. aababb</p> <p>4. aaabb</p>

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Questions	Choices
Which of the following takes a dict of dicts or a dict of array-like sequences and returns a DataFrame?	<ol style="list-style-type: none">1. DataFrame.from_dict2. DataFrame.from_records3. DataFrame.from_items4. Dataframe.from_keys

Questions	Choices
Which of the following techniques is commonly used for geospatial data visualization?	<ol style="list-style-type: none"><li data-bbox="1096 187 1275 266">1. Line graph<li data-bbox="1096 298 1275 377">2. Heat map<li data-bbox="1096 409 1410 457">3. Parallel coordinates<li data-bbox="1096 520 1298 568">4. Radar chart
Which of the following visualization techniques is best suited for detecting outliers in a dataset?	<ol style="list-style-type: none"><li data-bbox="1096 653 1275 733">1. Violin plot<li data-bbox="1096 764 1388 812">2. Stacked bar chart<li data-bbox="1096 844 1275 891">3. Area chart<li data-bbox="1096 955 1298 1034">4. Scatter plot

Questions	Choices
Which of the identity is true related to Big theta notation?	<ol style="list-style-type: none">1. asymptotically equal2. asymptotically less than equal3. asymptotically less than4. asymptotically greater than
Which of the join operations do not preserve non matched tuples?	<ol style="list-style-type: none">1. Left outer join2. Right outer join3. Inner join4. Natural join

Questions	Choices
Which of the property fail in case of time complexity?	<ol style="list-style-type: none">1. transitivity2. reflexivity3. Symmetry4. None of these
Which of the statement is in correct?	<ol style="list-style-type: none">1. Recurrence relation for number of comparisons in binary search is $T(n) = T(n/2)+2$2. Recurrence realtion of merge sort is $T(n) = 2T(n/2)+O(n)$3. Recurrence of quick sort in worst case is $T(n)$4. 3-way merge sort is $T(n)=3T(n/3)+O(n)$

Questions	Choices
Which of the Window functions returns the position of any row in a specified Partition in SQL ?	1. ROW_ID() 2. RANK() 3. PARTITION() 4. CRITERIA()
Which of these class contains the methods used to write to a file in Java?	1. FileStream 2. FileInputStream 3. BufferedOutputStream 4. FileBufferStream

Questions	Choices
Which of these exception is thrown by close() and read() methods in Java?	<ol style="list-style-type: none">1. IOException2. FileException3. FileNotFoundException4. FileInputOutputException

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Questions	Choices
Which of these keywords can be used to prevent inheritance of a class in Java?	1. super 2. constant 3. class 4. final

Questions	Choices
Which of these keywords is used to manually throw an exception in Java?	<ol style="list-style-type: none"><li data-bbox="1163 176 1237 207">1.<li data-bbox="1163 219 1237 250">try<li data-bbox="1163 287 1237 318">2.<li data-bbox="1163 330 1237 361">finally<li data-bbox="1163 398 1237 430">3.<li data-bbox="1163 441 1237 472">throw<li data-bbox="1163 509 1237 541">4.<li data-bbox="1163 552 1237 584">catch
Which of these keywords is used to monitor exceptions in Java?	<ol style="list-style-type: none"><li data-bbox="1163 652 1237 683">1.<li data-bbox="1163 695 1237 726">try<li data-bbox="1163 763 1237 795">2.<li data-bbox="1163 806 1237 837">finally<li data-bbox="1163 874 1237 906">3.<li data-bbox="1163 917 1237 949">throw<li data-bbox="1163 985 1237 1017">4.<li data-bbox="1163 1028 1237 1060">catch

Questions	Choices
Which of these methods are used to read in from file in Java?	<ol style="list-style-type: none"><li data-bbox="1163 180 1253 260">1. get()<li data-bbox="1163 292 1275 371">2. read()<li data-bbox="1163 403 1275 482">3. scan()<li data-bbox="1163 514 1410 593">4. readFileInput()
Which of these methods is used to write() into a file in Java?	<ol style="list-style-type: none"><li data-bbox="1163 657 1253 736">1. put()<li data-bbox="1163 768 1320 847">2. putFile()<li data-bbox="1163 879 1275 958">3. write()<li data-bbox="1163 990 1320 1069">4. writeFile()

Questions	Choices
Which of these words is not a part of exception handling in Java?	<ol style="list-style-type: none"><li data-bbox="1156 182 1246 261">1. try<li data-bbox="1156 293 1291 372">2. finally<li data-bbox="1156 404 1291 484">3. thrown<li data-bbox="1156 515 1291 595">4. catch
Which one of the following characteristics of a design indicates a poor design?	<ol style="list-style-type: none"><li data-bbox="1156 658 1336 737">1. Low depth<li data-bbox="1156 769 1358 849">2. High fan-out<li data-bbox="1156 880 1358 960">3. Large width<li data-bbox="1156 991 1358 1071">4. High fan-in

Questions	Choices
Which one is not covered under an acceptable deadlock prevention policy?	<ol style="list-style-type: none">1.a) After releasing any resource, never request it again.2.a) Before requesting a new resource, all existing resources must be released.3.a) Never request a lower-numbered resource than the one that was previously requested.4.Before execution, the request and all necessary resources are allocated
Which one is not part of conditions for network flow?	<ol style="list-style-type: none">1.Capacity Constraint2.Skew Symmetry3.Flow conservation4.Capacity flow

Questions	Choices
Which one of the following is the contract for performance negotiated between you and a service provider?	<ol style="list-style-type: none">1. SAL2. SLA3. SAS4. SSL

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Questions	Choices
Which one of the following is not an optimal algorithm?	<ol style="list-style-type: none">1. Breadth first search2. Depth first search3. Uniform cost search4. A* algorithm
Which one of the following is not the function of Facebook Graph API for dealing with comments?	<ol style="list-style-type: none">1. FacebookGraphAPI.updateComment2. FacebookGraphAPI.addComment3. FacebookGraphAPI.putComment4. FacebookGraphAPI.deleteComment

Questions	Choices
Which one of the following is/are the step(s) to be followed while integrating an API to app? I) Hire an API integration expert II) Get API keys and authorization token III) Integrate API framework for the App	1. only I 2. Both I and III 3. Both II and III 4. I, II and III

Questions	Choices
	1. The set of all strings containing the substring 00.
	2. The set of all strings containing at most two 0s.
Which one of the following languages over alphabet {0,1} is described by the regular expression: $(0+1)^*0(0+1)^*0(0+1)^*$?	3. The set of all strings containing at least two 0s
	4. The set of all strings that begin and end with either 0 or 1.

Questions	Choices
	1. 0*(11*0)*
Which one of the following regular expressions over {0,1} denotes the set of all strings not containing 100 as a substring?	2. 0*1010* 3. 0*(10+1)* 4. 0*1*01
Which one takes lesser time in the construction of convex hull?	1. Jarvis 2. Graham 3. closest pair 4. All of these

Questions	Choices
Which Operator should be used in SQL to test if the given expression matches any value in a list of values?	1. IN 2. EQUAL TO 3. LIKE 4. NOT EQUAL TO
Which phase in data mining is used to identify the new relationships and meaning present in the data.	1. Data Integration 2. Data preprocessing 3. Data Transformation 4. Data reduction

Questions	Choices
Which rule is equal to the resolution rule of first-order clauses?	<p>1. Propositional resolution rule</p> <p>2. Inference rule</p> <p>3. Resolution rule</p> <p>4. Production rule</p>
Which search is implemented with an empty first-in-first-out queue	<p>1. Breadth-first search</p> <p>2.</p> <p>3. Bidirectional search</p> <p>4. Unidirectional Search</p>

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Questions	Choices
Which search strategy is also called as blind search	<p>1. Uninformed search</p> <p>2.</p> <p>3. Simple reflex search</p> <p>4.</p> <p>Simple Search</p>

Questions	Choices
Which specific polynomial selection will be better while selecting the augmentation path in case of max flow algorithm?	<ol style="list-style-type: none">1. pseudo2. Weakly3. Strongly4. All of these
Which two files are used during operation of the DBMS ?	<ol style="list-style-type: none">1. Query languages and utilities2. DML and query language3. Data dictionary and transaction log4. Data dictionary and query language

Questions	Choices
Which type of advanced visualization technique is best suited for displaying complex hierarchical relationships?	<ol style="list-style-type: none"><li data-bbox="1163 187 1343 266">1. Scatter plot<li data-bbox="1163 293 1343 372">2. Heatmap<li data-bbox="1163 399 1343 479">3. TreeMap<li data-bbox="1163 506 1343 585">4. Line chart
Which type of visualization is used to explore ordered groups within a larger group?	<ol style="list-style-type: none"><li data-bbox="1163 663 1388 742">1. Tree diagram<li data-bbox="1163 769 1388 849">2. Tree map<li data-bbox="1163 876 1388 939">3. Ring charts<li data-bbox="1163 966 1388 1045">4. Histogram

Questions	Choices
Which type of visualization technique allows you to compare multiple variables at once?	<ol style="list-style-type: none"><li data-bbox="1163 187 1304 266">1. Box plot<li data-bbox="1163 295 1304 374">2. Bar chart<li data-bbox="1163 403 1304 482">3. Histogram<li data-bbox="1163 511 1304 590">4. Scatter plo
Which type of visualization technique is best suited for exploring large datasets with many variables?	<ol style="list-style-type: none"><li data-bbox="1163 652 1439 731">1. Scatter plot matrix<li data-bbox="1163 760 1349 839">2. Bubble chart<li data-bbox="1163 868 1423 947">3. Stacked bar chart<li data-bbox="1163 976 1304 1055">4. Pie chart

Questions	Choices
Which V stands at the top of the Data Pyramid?	1. VOLUME 2. VELOCITY 3. VARIETY 4. VALUE
Which value is assigned to alpha and beta in the alpha-beta pruning?	1. Alpha = max 2. Beta = min 3. Beta = max 4. Both Alpha = max & Beta = min

Questions	Choices
Which variable can give the concrete form to the representation of the transition model?	1. Single variable 2. Discrete state variable 3. Random variable 4. Both Single & Discrete state variable

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Comprehensive Question Preview

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Questions	Choices
Which-one of the following statements about normal forms is FALSE?	<ol style="list-style-type: none">1. BCNF is stricter than 3 NF2. Lossless, dependency -preserving decomposition into 3 NF is always possible3. Loss less, dependency - preserving decomposition into BCNF is always possible4. Any relation with two attributes is BCNF

Questions	Choices
Which-one ofthe following statements about normal forms is FALSE?	<ol style="list-style-type: none">1. BCNF is stricter than 3 NF2. Lossless, dependency -preserving decomposition into 3 NF is always possible3. Loss less, dependency - preserving decomposition into BCNF is always possible4. Any relation with two attributes is BCNF
While analyzing time complexity which of the following case will not be considered?	<ol style="list-style-type: none">1. best2. Worse3. Null4. Average

Questions	Choices
While using the direct mapping technique, in a 16 bit system the higher order 5 bits are used for _____	1. ID 2. word 3. Tag 4. Block
Windows Azure and Force.com are example of?	1. PaaS 2. IaaS 3. SaaS 4. NaaS

Questions	Choices
With regard to linked lists, which of the following statements is false?	<p>1. An algorithm to search for an element in a singly linked list requires $O(n)$ operations in the worst case</p> <p>2. An algorithm for deleting the first element in a singly linked list requires $O(n)$ operations in the worst case.</p> <p>3. An algorithm for finding the maximum value in a circular linked list requires $O(n)$ operations in the worst case.</p> <p>4. An algorithm for deleting the middle element of a circular linked list requires $O(n)$ operations in the worst case.</p>

Questions	Choices
<p>Write Through technique is used in which memory for updating the data</p>	<ol style="list-style-type: none">1. Virtual memory2. Main memory3. Auxiliary memory4. Cache memory
<p>You are given reviews of few movies marked as positive, negative or neutral. Classifying reviews of new movie is an example of</p>	<ol style="list-style-type: none">1. Supervised algorithm2. Unsupervised algorithm3. Semi-supervised algorithm4. Reinforcement algorithm

Questions	Choices
<p>You are given reviews of few Netflix series marked as positive, negative and neutral. Classifying reviews of a new netflix series is an example of_____</p>	<ol style="list-style-type: none">1. unsupervised learning2. semi supervised learning3. supervised learning4. reinforcement learning
<p>You trained a binary classifier model which gives very high accuracy on the training data, but much lower accuracy on validation data. Which of the following may not be true?</p>	<ol style="list-style-type: none">1. This is an instance of overfitting.2. This is an instance of underfitting.3. The training was not well regularized.4. The training and testing examples are sampled from different distributions.

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Comprehensive Question Preview

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Questions	Choices
<p>You've just finished training a decision tree for spam classification, and it is getting abnormally bad performance on both your training and test sets. You know that your implementation has no bugs, so what could be causing the problem?</p>	<ol style="list-style-type: none">1. You are underfitting2. You are overfitting.3. You need to increase the learning rate.4. Your decision trees are too shallow. correct ans

Questions	Choices
<p>“Imagine that you were recently hired as a software engineer to a company that specializes in aircraft navigation control software. While orientating yourselves to the company’s work practices, you observe that they in fact do not conduct a few tests that they should in order comply with the relevant safety standard. When you inquire about this from the project manager, he dismisses it saying that those tests unnecessary (and takes an unreasonably long time to conduct, as well as being superfluous) and that they have managed with the other so long, without any problems.”</p>	<ol style="list-style-type: none"><li data-bbox="1167 187 1715 330">1. You should immediately resign from the company and file a complaint with the relevant standard institution<li data-bbox="1167 355 1715 498">2. You should do nothing and let the matter slide<li data-bbox="1167 523 1715 863">3. Although you are new to the company, and you hardly know anything about the internal processes and politics, you should insist on company changing its work practices immediately; failing which you threaten to report the matter<li data-bbox="1167 888 1715 1180">4. Since you are new to the company, and you are unfamiliar with the internal processes and politics, you should first find-out more about issue and its background

Questions	Choices
<p>"Students only bunk classes they are not interested in". Which of the following is/are correct FOL representations for the above sentence?</p> <p>..... processes the DDL statements into a set of table containing meta data.</p>	<ol style="list-style-type: none">1. $\text{Students} \wedge \text{Bunk} \supset \text{Class} \wedge \neg\text{Interested}$2. $\forall x \forall y \text{ Student}(x) \wedge \text{Class}(y) \wedge \text{Bunk}(x,y) \supset \neg\text{Interested}(x,y)$3. $\forall x \forall y \text{ Student}(x) \wedge \text{Class}(y) \wedge \text{Bunk}(x,y) \wedge \neg\text{Interested}(x,y)$4. $\forall x \forall y \text{ Student}(x) \wedge \text{Bunk}(x,y) \supset \text{Class}(y) \wedge \neg\text{Interested}(x,y)$ <ol style="list-style-type: none">1. DML Compiler2. DDL Interpreter3. Query Optimizer4. Data Dictionary Manager
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