Question Paper Preview

Notations :

1.Options shown in green color and with ✔ icon are correct.

2.Options shown in red color and with ✖ icon are incorrect.

Question Paper Name:	Computer Application 7th June 2017 Shift 2
Subject Name:	Computer Application
Creation Date:	2017-06-07 19:33:18
Duration:	150
Total Marks:	300
Display Marks:	No
Calculator:	Scientific
Magnifying Glass Required?:	No
Ruler Required?:	No
Eraser Required?:	No
Scratch Pad Required?:	No
Rough Sketch/Notepad Required?:	No
Protractor Required?:	No

Computer Application

Group Number :	1
Group Id :	798407160
Group Maximum Duration :	0
Group Minimum Duration :	150
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	300

Computer Application

Section Id :	798407160
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	150
Number of Questions to be attempted:	150
Section Marks:	300
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	798407196
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 79840723887 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

What are you predicating by the logic: ∀ x: €y: loyalto(x, y).

Options :

1. ✔ Everyone is loyal to some one
2. ✖ Everyone is loyal to all
3. ✖ Everyone is not loyal to someone
4. ✖ Everyone is loyal

Question Number : 2 Question Id : 79840723888 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The field that investigates the mechanics of human intelligence is

Options :

1. ✖ Artificial science
2. ✔ Cognitive science
3. ✖ Psychology
4. ✖ Sociology

Question Number : 3 Question Id : 79840723889 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

AI computing focus on _____ and conventional computing focus on _____ and

Options :

1. ✖ data, information, knowledge
2. ✖ information, data, knowledge
3. ✔ knowledge, data, information
4. ✖ None of the given options

Question Number : 4 Question Id : 79840723890 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

An inference rule that says, if you know x and you know that if x is true, then y is true, then you can conclude y is

Options :

1. ✖ Minmax rule
2. ✔ Modus Ponens rule
3. ✖ chain rule
4. ✖ None of the given options

Question Number : 5 Question Id : 79840723891 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which one of the following is blind search?

Options :

1. ✖ Breadth first search
2. ✖ Depth first search
3. ✔ Breadth first search and Depth first search
4. ✖ None of the given options

Question Number : 6 Question Id : 79840723892 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The intelligent agents senses through _____ and take actions through

Options :

1. ✔ sensors, actuators
2. ✖ remote, signals
3. ✖ sensors, actuators and remote, signals
4. ✖ None of the given options

Question Number : 7 Question Id : 79840723893 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Local maximum Plateau, Ridge are the difficulties in which searching algorithms?

Options :

1. ✔ Hill climbing search
2. ✖ Best first search
3. ✖ Breadth first search
4. ✖ None of the given options

Question Number : 8 Question Id : 79840723894 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A* algorithm uses _____ heuristic function to search any goal node

Options :

1. ✔ admissible function
2. ✖ fitness number
3. ✖ evaluation function
4. ✖ None of the given options

Question Number : 9 Question Id : 79840723895 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

An algorithm, if it is guaranteed to return an optimal solution if it exists, is known as

Options :

1. ✔ admissible
2. ✖ heuristic
3. ✖ optimistic
4. ✖ cognitive

Question Number : 10 Question Id : 79840723896 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

AO* algorithm is also known as

Options :

1. ✖ Admissible optimal algorithm
2. ✖ Accurate optimistic algorithm
3. ✔ And-or algorithm
4. ✖ None of the given options

Question Number : 11 Question Id : 79840723897 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Raster systems display a picture from a definition in a _____

Options :

1. ✖ display file program
2. ✔ frame buffer
3. ✖ display controller
4. ✖ None of the given options

Question Number : 12 Question Id : 79840723898 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A bilinear transformation can be simulated by the transformations

Options :

1. ✖ translation, rotation and stretching
2. ✖ translation and rotation
3. ✖ rotation, stretching and inversion
4. ✔ rotation, stretching, inversion and translation

Question Number : 13 Question Id : 79840723899 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Hue of a colour is related to its _____

Options :

1. ✖ luminance
2. ✖ saturation
3. ✖ incandescence
4. ✔ wavelength

Question Number : 14 Question Id : 79840723900 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

If the eccentricity is less than one, then conic is a _____

Options :

1. ✖ circle
2. ✖ parabola
3. ✔ ellipse
4. ✖ hyperbola

Question Number : 15 Question Id : 79840723901 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The refresh rate below which a picture flickers is _____

Options :

1. ✔ 25
2. ✖ 30
3. ✖ 35
4. ✖ 60

Question Number : 16 Question Id : 79840723902 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The physical layer of a network _____

Options :

1. ✔ Defines the electrical characteristics of signals passed between the computer and communication devices
2. ✖ Controls error detection and correction
3. ✖ Constructs packets of data and sends them across the network
4. ✖ All the given options

Question Number : 17 Question Id : 79840723903 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

End-to-End connectivity is provided from host-to-host in ____

Options :

1. ✖ Session Layer
2. ✖ Network Layer
3. ✖ Data link Layer
4. ✔ Transport Layer

Question Number : 18 Question Id : 79840723904 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which layer is not present in TCP/IP Model ?

Options :

1. ✖ Internet Layer
2. ✖ Application Layer
3. ✔ Session Layer
4. ✖ Transport Layer

Question Number : 19 Question Id : 79840723905 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Nyquist Theorem top calculate maximum data rate is ____

Options :

1. ✔ $2H \log_2 V$ bits/sec
2. ✖ $H \log_2 V$ bits/sec
3. ✖ $H \log_2 (1+S/N)$
4. ✖ $2H \log_2 (1+S/N)$

Question Number : 20 Question Id : 79840723906 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

LANs can be connected by devices called ____ which operate in the data link layer?

Options :

1. ✖ Hub
2. ✔ Bridges
3. ✖ HDLC
4. ✖ Tunnel

Question Number : 21 Question Id : 79840723907 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Two different networks can be connected by using _____

Options :

1. ✖ Satellite
2. ✔ Gateway
3. ✖ Bridges
4. ✖ None of the given options

Question Number : 22 Question Id : 79840723908 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following is not a Routing Algorithm?

Options :

1. ✖ Broadcast
2. ✖ Link state
3. ✔ Traffic shaping
4. ✖ Distance vector

Question Number : 23 Question Id : 79840723909 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

_____ is a device that receives a radio signal, strengthens it, and sends it on.

Options :

1. ✔ Repeater
2. ✖ WiFi
3. ✖ Hub
4. ✖ Microwave

Question Number : 24 Question Id : 79840723910 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

What is the main reason for developing ISO/ OSI model for networks ?

Options :

1. ✖ Manufacturers disliked the TCP/IP protocol suite
2. ✖ The rate of data transfer was increasing exponentially
3. ✔ Standards were needed to allow any two systems to communicate
4. ✖ None of the given options

Question Number : 25 Question Id : 79840723911 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which layer functions as a liaison between user support layers and network support layers?

Options :

1. ✖ Network Layer
2. ✖ Physical Layer
3. ✔ Transport Layer
4. ✖ Session Layer

Question Number : 26 Question Id : 79840723912 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

In the IPv4 addressing format, the number of networks allowed under Class C addresses is

Options :

1. ✖ 2^{14}

2. ✖ 2^{21}

3. ✔ 2^{7}

4. ✖ 2^{24}

Question Number : 27 Question Id : 79840723913 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following flip-flops is free from race around problem?

Options :

1. ✖ D flip-flop

2. ✖ T flip-flop

3. ✖ S-R flip-flop

4. ✔ Master-slave J-K flip-flop

Question Number : 28 Question Id : 79840723914 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The number of full and half adders required to add 16-bit numbers are

Options :

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

Question Number : 29 Question Id : 79840723915 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

An example of a tautology is

Options :

1. ✖ $x \vee y$

2. ✖ $x \vee (\neg y)$

3. ✔ $x \vee (\neg x)$

4. ✖ $(x \rightarrow y) \wedge (x \leftarrow y)$

Question Number : 30 Question Id : 79840723916 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The idempotent law in the Boolean algebra says that

Options :

1. ✖ $\neg (\neg x) = x$

2. ✔ $x + x = x$

3. ✖ $x + xy = x$

4. ✖ $x(x + y) = x$

Question Number : 31 Question Id : 79840723917 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The proposition (p→q)^(¬ q ˅ p) is equivalent to

Options :

1. ✖ q→p
2. ✖ p→q
3. ✖ (q→p)˅(p→q)
4. ✔ (p→q) ^(q→p)

Question Number : 32 Question Id : 79840723918 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

How many flip-flops are required mod-16 counter?

Options :

1. ✖ 5
2. ✖ 6
3. ✖ 3
4. ✔ 4

Question Number : 33 Question Id : 79840723919 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The number of control lines for a 8 to 1 multiplexer is

Options :

1. ✖ 2
2. ✔ 3
3. ✖ 4
4. ✖ 5

Question Number : 34 Question Id : 79840723920 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The gray code for decimal number 6 is equivalent

Options :

1. ✖ 1100
2. ✖ 1001
3. ✔ 0101
4. ✖ 0110

Question Number : 35 Question Id : 79840723921 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The gates required to build a half adder are

Options :

1. ✖ Ex-OR gate and NOR gate
2. ✖ Ex-OR gate and OR gate
3. ✔ Ex-OR gate and AND gate
4. ✖ Four NAND gates

Question Number : 36 Question Id : 79840723922 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

In order to implement an n-variable switching function, a MUX must have

Options :

1. ✔ 2^n inputs
2. ✖ $2^n + 1$ inputs
3. ✖ 2^{n-1} inputs
4. ✖ $2^n - 1$ inputs

Question Number : 37 Question Id : 79840723923 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The worst case time complexity of Quick Sort is_____.

Options :

1. ✔ $O(n^2)$
2. ✖ O(log n)
3. ✖ O(n)
4. ✖ O(n logn)

Question Number : 38 Question Id : 79840723924 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The worstcase time complexity of Merge Sort is_____.

Options :

1. ✖ $O(n^2)$
2. ✖ O(log n)
3. ✖ O(n)
4. ✔ O(n logn)

Question Number : 39 Question Id : 79840723925 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following sorting procedures is the slowest?

Options :

1. ✖ Quick sort
2. ✖ Heap sort
3. ✖ Shell sort
4. ✔ Bubble sort

Question Number : 40 Question Id : 79840723926 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The recurrence relation capturing the optimal execution time of the Towers of Hanoi problem with n discs is

Options :

1. ✖ $T(n) = 2T(n-2)+ 2$
2. ✖ $T(n) = 2T(n-1)+ n$
3. ✖ $T(n) = 2T(n/2) + 1$
4. ✔ $T(n) = 2T(n-1)+ 1$

Question Number : 41 Question Id : 79840723927 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following sorting methods would be most suitable for sorting a list which is almost sorted?

Options :

1. ✖ Bubble Sort
2. ✔ Insertion Sort
3. ✖ Selection Sort
4. ✖ Quick Sort

Question Number : 42 Question Id : 79840723928 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The running time of insertion sort is

Options :

1. ✔ $O(n^2)$
2. ✖ O(n)
3. ✖ O(log n)
4. ✖ O(n log n)

Question Number : 43 Question Id : 79840723929 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A sort which compares adjacent elements in a list and switches where necessary is ____.

Options :

1. ✔ insertion sort
2. ✖ heap sort
3. ✖ quick sort
4. ✖ bubble sort

Question Number : 44 Question Id : 79840723930 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The correct order of the efficiency of the following sorting algorithms according to their overall running time comparison is

Options :

1. ✖ Insertion>selection>bubble
2. ✖ Insertion>bubble>selection
3. ✖ Selection>bubble>insertion.
4. ✔ bubble>selection>insertion

Question Number : 45 Question Id : 79840723931 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A sort which iteratively passes through a list to exchange the first element with any element less than it and then repeats with a new first element is called

Options :

1. ✔ insertion sort
2. ✖ selection sort
3. ✖ heap sort
4. ✖ quick sort

Question Number : 46 Question Id : 79840723932 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A primary key for an entity is

Options :

1. ✖ A candidate key
2. ✖ Any attribute
3. ✔ A unique attribute
4. ✖ A super key

Question Number : 47 Question Id : 79840723933 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Aggregate functions in SQL are

Options :

1. ✖ GREATEST,LEAST and ABS
2. ✔ SUM,COUNT AND AVG
3. ✖ UPPER,LOWER AND LENGTH
4. ✖ SQRT,POWER AND MOD

Question Number : 48 Question Id : 79840723934 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

If a relation is in 2NF and 3NF forms, then

Options :

1. ✖ no non-prime attribute is functionally dependent on other non-prime attributes
2. ✖ no non-prime attribute is functionally dependent on the prime attributes
3. ✖ all attributes are functionally independent
4. ✔ prime attribute is functionally independent of all non-prime attributes

Question Number : 49 Question Id : 79840723935 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which normal form is considered adequate for relational database design?

Options :

1. ✖ 2 NF
2. ✔ 3 NF
3. ✖ 4 NF
4. ✖ BCNF

Question Number : 50 Question Id : 79840723936 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The data type created by data abstraction process is called

Options :

1. ✖ class
2. ✖ structure
3. ✔ abstract data type
4. ✖ user defined data type

Question Number : 51 Question Id : 79840723937 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A superkey for an entity consists of

Options :

1. ✖ one attribute only
2. ✖ atleast two attributes
3. ✖ at most two attributes
4. ✔ one or more attributes

Question Number : 52 Question Id : 79840723938 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following sets of keywords constitutes a mapping in SQL?

Options :

1. ✖ SELECT, FROM,TABLE
2. ✔ SELECT,FROM, WHERE
3. ✖ CONNECT,TABLE, CREATE
4. ✖ SELECT,TABLE,INSERT

Question Number : 53 Question Id : 79840723939 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The complexity of binary search algorithm is

Options :

1. ✖ O(n)
2. ✔ O(log n)
3. ✖ $O(n^2)$
4. ✖ O(n log n)

Question Number : 54 Question Id : 79840723940 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The operation of processing each element in the list is known as

Options :

1. ✖ sorting
2. ✖ merging
3. ✖ inserting
4. ✔ traversal

Question Number : 55 Question Id : 79840723941 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The postfix for a string is ABC + -D*,the actual string will be

Options :

1. ✔ (A-(B+C))*D
2. ✖ ((A-B)+C)*D
3. ✖ ((A+B)-C)*D
4. ✖ (A+(B-C))*D

Question Number : 56 Question Id : 79840723942 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The algorithm that will efficiently sort an array that is nearly sorted except for the interchange of some adjacent pairs of numbers like {1,3,2,5,4,6} is

Options :

1. ✖ quick sort
2. ✔ bubble sort
3. ✖ merge sort
4. ✖ selection sort

Question Number : 57 Question Id : 79840723943 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

For an undirected graph with n vertices and e edges, the sum of the degree of each vertex is

Options :

1. ✖ 2n
2. ✖ (2n-1)/2
3. ✔ 2e
4. ✖ e2/ 2

Question Number : 58 Question Id : 79840723944 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Assume that the algorithms considered here sort the input sequences in ascending order. If the input is already in ascending order, which of the following are TRUE?
I. Quick sort runs in $\Omega(n^2)$ time
II. Bubble sort runs in $\Omega(n^2)$ time
III. Merge-sort runs in $\Omega(n)$ time
IV. Insertion sort runs in $\Omega(n)$ time

Options :

1. ✖ I and II only
2. ✖ I and III only
3. ✖ II and IV only
4. ✔ I and IV only

Question Number : 59 Question Id : 79840723945 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A full binary tree with n leaves contains

Options :

1. ✖ n nodes
2. ✖ log2 n nodes
3. ✔ 2n - 1 nodes
4. ✖ 2n nodes

Question Number : 60 Question Id : 79840723946 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

If (rear= = maxsize -1)rear=0; else rear=rear +1; is required in

Options :

1. ✔ circular queue

2. ✖ linear queue

3. ✖ stack

4. ✖ deque

Question Number : 61 Question Id : 79840723947 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

How much extra space is used by heap sort?

Options :

1. ✔ O(1)

2. ✖ O(log n)

3. ✖ O(n)

4. ✖ $O(n^2)$

Question Number : 62 Question Id : 79840723948 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The data structure required for breadth first traversal on a graph is

Options :

1. ✔ queue

2. ✖ stack

3. ✖ array

4. ✖ tree

Question Number : 63 Question Id : 79840723949 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Data scrubbing is which of the following?

Options :

1. ✖ A process to reject data from the data warehouse and to create the necessary indexes

2. ✖ A process to load the data in the data warehouse and to create the necessary indexes

3. ✖ A process to upgrade the quality of data after it is moved into a data warehouse

4. ✔ A process to upgrade the quality of data before it is moved into a data warehouse

Question Number : 64 Question Id : 79840723950 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The active data warehouse architecture includes which of the following?

Options :

1. ✖ At least one data mart

2. ✖ Data that can extracted from numerous internal and external sources

3. ✖ Near real-time updates

4. ✔ All the given options

Question Number : 65 Question Id : 79840723951 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A goal of data mining includes which of the following?

Options :

1. ✔ To explain some observed event or condition

2. ✖ To confirm that data exists

3. ✖ To analyze data for expected relationships

4. ✖ To create a new data warehouse

Question Number : 66 Question Id : 79840723952 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A snowflake schema is which of the following types of tables?

Options :

1. ✖ Fact

2. ✖ Dimension

3. ✖ Helper

4. ✔ All the given options

Question Number : 67 Question Id : 79840723953 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The generic two level data warehouse architecture includes which of the following?

Options :

1. ✖ At least one data mart

2. ✔ Data that can extracted from numerous internal and external sources

3. ✖ Near real time updates

4. ✖ All the given options

Question Number : 68 Question Id : 79840723954 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Fact tables are which of the following?

Options :

1. ✖ Completely denormalized

2. ✖ Partially denormalized

3. ✔ Completely normalized

4. ✖ Partially normalized

Question Number : 69 Question Id : 79840723955 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Data transformation includes which of the following?

Options :

1. ✔ A process to change data from a detailed level to a summary level

2. ✖ A process to change data from a summary level to a detailed level

3. ✖ Joining data from one source into various sources of data

4. ✖ Separating data from one source into various sources of data

Question Number : 70 Question Id : 79840723956 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A digital signature is

Options :

1. ✖ scanned signature

2. ✖ signature in binary form

3. ✔ encrypting information

4. ✖ handwritten signature

Question Number : 71 Question Id : 79840723957 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following clustering algorithms is applicable for grouping nearly 10000 data points into ten mutually exclusive clusters?

Options :

1. ✖ Agglomerative clustering

2. ✖ Divisive clustering

3. ✖ DBSCAN

4. ✔ K-means clustering

Question Number : 72 Question Id : 79840723958 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

An E-business that allows consumer to select their own descriptions for products and services(like Blogs) is following which E-business model?

Options :

1. ✖ B2B

2. ✖ B2C

3. ✖ C2C

4. ✔ C2B

Question Number : 73 Question Id : 79840723959 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Kerberos is an encryption bases system that uses

Options :

1. ✔ secret key encryption

2. ✖ public key encryption

3. ✖ private key encryption

4. ✖ datakey encryption

Question Number : 74 Question Id : 79840723960 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A firewall is

Options :

1. ✖ an established network performance reference point

2. ✔ software or hardware used to isolate a private network from a public network

3. ✖ a virus that infects macros

4. ✖ a predefined encryption key used to encrypt and decrypt data transmissions

Question Number : 75 Question Id : 79840723961 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

LDAP stands for

Options :

1. ✖ Light weight Data access protocol
2. ✔ Light weight Directory Access protocol
3. ✖ Large Data Access protocol
4. ✖ Large Directory Access protocol

Question Number : 76 Question Id : 79840723962 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Amazon.com comes under the following model

Options :

1. ✖ B2B
2. ✔ B2C
3. ✖ C2C
4. ✖ C2B

Question Number : 77 Question Id : 79840723963 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Internet access components in E-commerce infrastructure involves

Options :

1. ✖ TCP/IP package
2. ✖ kiosks
3. ✖ web browsers
4. ✔ All the given options

Question Number : 78 Question Id : 79840723964 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

E-commerce infrastructure involves

Options :

1. ✖ web servers
2. ✖ e-catalogs
3. ✖ networks
4. ✔ All the given options

Question Number : 79 Question Id : 79840723965 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

How many 8-bit characters can be transmitted per second over a 9600 baud serial communication link using asynchronous mode of transmission with one start bit, eight data bits, two stop bits, and one parity bit ?

Options :

1. ✖ 600
2. ✔ 800
3. ✖ 876
4. ✖ 1200

Question Number : 80 Question Id : 79840723966 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The private key in public key encryption is used for

Options :

1. ✖ encryption
2. ✔ hashing
3. ✖ decryption
4. ✖ encryption and hashing

Question Number : 81 Question Id : 79840723967 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Public key encryption makes use of

Options :

1. ✖ one key
2. ✔ two keys
3. ✖ hash function
4. ✖ All the given options

Question Number : 82 Question Id : 79840723968 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Determine the maximum length of the cable (in Km) for transmitting data at a rate of 700 Mbps in an Ethernet LAN with frames of size 10,000 bits. Assume the signal speed in the cable to be 2,00,000 km/ses.

Options :

1. ✖ 1.75
2. ✔ 1.428
3. ✖ 2
4. ✖ 2.152

Question Number : 83 Question Id : 79840723969 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which protocol will be used to automate the IP configuration mechanism which includes IP address, subnet mask, default gateway, and DNS information?

Options :

1. ✖ SMTP
2. ✔ DHCP
3. ✖ ARP
4. ✖ TCP/IP

Question Number : 84 Question Id : 79840723970 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The complete graph Kn has …… different spanning trees.

Options :

1. ✔ n^(n-2)
2. ✖ n x n
3. ✖ n^n
4. ✖ n^2

Question Number : 85 Question Id : 79840723971 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following is not a type of graph?

Options :

1. ✖ Euler
2. ✖ Hamiltonian
3. ✖ Tree
4. ✔ Path

Question Number : 86 Question Id : 79840723972 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Pigeonhole principle states that if A→B and |A| >|B| then ____

Options :

1. ✖ f is not onto
2. ✔ f is not one-one
3. ✖ f is neither one-one nor onto
4. ✖ f may be one-one

Question Number : 87 Question Id : 79840723973 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Two girls have picked 10 roses, 15 sunflowers and 14 daffodils. What is the number of ways they can divide the flowers amongst themselves?

Options :

1. ✖ 1,638
2. ✔ 2,640
3. ✖ 2,100
4. ✖ None of the given options

Question Number : 88 Question Id : 79840723974 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

If G is an undirected planar graph on n vertices with e edges then?

Options :

1. ✖ e<=n
2. ✔ e<=2n
3. ✖ e<=3n
4. ✖ None of the given options

Question Number : 89 Question Id : 79840723975 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A bag contains 10 white balls and 15 black balls. Two balls are drawn in succession. The probability that one of them is black and other is white is _____

Options :

1. ✖ 4/5
2. ✖ 2/3
3. ✔ 0.5
4. ✖ 1/3

Question Number : 90 Question Id : 79840723976 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

R be a relation in a set A. Then R is an equivalence relation in A if and only if __

Options :

1. ✔ R is reflexive, R is symmetric and R is transitive
2. ✖ R is antireflexive, R is symmetric and R is transitive
3. ✖ R is antireflexive, R is antisymmetric and R is transitive
4. ✖ None of the given options

Question Number : 91 Question Id : 79840723977 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following are tautologies?

Options :

1. ✔ $((P \vee Q) \wedge Q \leftrightarrow Q$
2. ✖ $(P \vee (P \rightarrow Q)) \rightarrow P$
3. ✖ $((P \vee Q) \wedge P) \rightarrow Q$
4. ✖ $((P \vee Q) \wedge P) \rightarrow Q$

Question Number : 92 Question Id : 79840723978 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following will not form an abelian group?

Options :

1. ✖ Addition in the set of natural numbers
2. ✖ Subtraction in the set of integers
3. ✖ Multiplication over the set of integers
4. ✔ All the given options

Question Number : 93 Question Id : 79840723979 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A binary relation S = ø(empty set) on set A = {1,2,3} is

Options :

1. ✖ neither reflexive nor symmetric
2. ✖ symmetric and reflexive
3. ✖ transitive and reflexive
4. ✔ transitive and symmetric

Question Number : 94 Question Id : 79840723980 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The asymptotic notation for defining the average time complexity is

Options :

1. ✔ Equivalence
2. ✖ Symmetric
3. ✖ Reflexive
4. ✖ Both Symmetric and Reflexive

Question Number : 95 Question Id : 79840723981 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The binary relation $R=\{(1,1),(2,1),(2,2),(2,3),(2,4),(3,1),(3,2),(3,3),(3,4)\}$ on the set $A=\{1,2,3,4\}$ is

Options :

1. ✖ reflexive, symmetric and transitive
2. ✔ neither reflexive nor irreflexive but transitive
3. ✖ irreflexive and antisymmetric
4. ✖ irreflexive, symmetric and transitive

Question Number : 96 Question Id : 79840723982 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Management information systems (MIS)

Options :

1. ✖ create and share documents that support day-today office activities
2. ✖ process business transactions (e.g., time cards, payments, orders, etc.)
3. ✖ capture and reproduce the knowledge of an expert problem solver
4. ✔ use the transaction data to produce information needed by managers to run the business

Question Number : 97 Question Id : 79840723983 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

If a university sets up a web-based information system that faculty could access to record student grades and to advise students, that would be an example of a/an

Options :

1. ✖ CRM
2. ✔ intranet
3. ✖ ERP
4. ✖ extranet

Question Number : 98 Question Id : 79840723984 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A software project involves execution of 5 tasks T1, T2, T3, T4 and T5 of duration 10, 15, 18, 30 and 40 days, respectively. T2 and T4 can start only after T1 completes. T3 can start after T2 completes. T5 can start only after both T3 and T4 complete. What is the slack time of the task T3 in days?

Options :

1. ✔ 0
2. ✖ 3
3. ✖ 18
4. ✖ 30

Question Number : 99 Question Id : 79840723985 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following enables enterprise interoperability?

Options :

1. ✖ DFD
2. ✖ Information flow diagram
3. ✔ XML
4. ✖ Entity relationship diagram

Question Number : 100 Question Id : 79840723986 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Banker's algorithm is used for …… purpose.

Options :

1. ✔ deadlock avoidance
2. ✖ deadlock removal
3. ✖ deadlock prevention
4. ✖ deadlock continuations

Question Number : 101 Question Id : 79840723987 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

An example of a memory management system call in UNIX is

Options :

1. ✖ fork
2. ✔ mmap
3. ✖ sigaction
4. ✖ execve

Question Number : 102 Question Id : 79840723988 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

In processor management, round-robin method essentially uses the pre-emptive version of

Options :

1. ✖ FILO
2. ✔ FIFO
3. ✖ SJF
4. ✖ longest time first

Question Number : 103 Question Id : 79840723989 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

If the executing program size is greater than the existing RAM of a computer, it is still possible to execute the program, if the OS supports

Options :

1. ✖ Synchronization
2. ✖ fault tolerance
3. ✔ paging system
4. ✖ Scheduling

Question Number : 104 Question Id : 79840723990 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Variable partition memory management technique with compaction results in

Options :

1. ✔ reduction of fragmentation
2. ✖ minimal wastage
3. ✖ segment sharing
4. ✖ None of the given options

Question Number : 105 Question Id : 79840723991 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Moving process from main memory to disk is called

Options :

1. ✖ caching
2. ✖ termination
3. ✔ swapping
4. ✖ Interruption

Question Number : 106 Question Id : 79840723992 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The principle of locality of reference justifies the use of

Options :

1. ✖ virtual memory
2. ✖ interrupts
3. ✔ cache memory
4. ✖ secondary memory

Question Number : 107 Question Id : 79840723993 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which command is used to display the top of the file?

Options :

1. ✖ cat
2. ✔ head
3. ✖ more
4. ✖ grep

Question Number : 108 Question Id : 79840723994 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which command is used to remove the read permission of the file 'note' from both the group and others?

Options :

1. ✖ chmodgo+r note
2. ✖ chmodgo+rw note
3. ✖ chmod go-x note
4. ✔ chmod go-r,4-x note

Question Number : 109 Question Id : 79840723995 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following is not a communication command?

Options :

1. ✖ write
2. ✖ mesg
3. ✖ mail
4. ✔ grep

Question Number : 110 Question Id : 79840723996 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

_____ checks type field in the file's inode structure.

Options :

1. ✖ Shell
2. ✔ Kernel
3. ✖ Compiler
4. ✖ None of the given options

Question Number : 111 Question Id : 79840723997 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following commands can be used to get information about individual terminal ?

Options :

1. ✔ who am i
2. ✖ pwd
3. ✖ i/u
4. ✖ which

Question Number : 112 Question Id : 79840723998 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

UNIX command used to compare the successive lines of file1 with the corresponding lines of file2 and output a 3-columnar report on lines unique to file1, file2 and common to both is ____

Options :

1. ✖ cmp file1 file2
2. ✔ comm file1 file2
3. ✖ diff file1 file2
4. ✖ comp file1 file2

Question Number : 113 Question Id : 79840723999 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

We can append to a file instead of overwriting by using the

Options :

1. ✖ < symbols
2. ✔ >> symbols
3. ✖ > symbols
4. ✖ << symbols

Question Number : 114 Question Id : 79840724000 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following is not a filter?

Options :

1. ✔ cat
2. ✖ wc
3. ✖ grep
4. ✖ sort

Question Number : 115 Question Id : 79840724001 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

```
main()
{
int x;
x=3*4%5;
printf("x=%d",x);
}
```

The output is

Options :

1. ✔ x=2
2. ✖ x=2.3
3. ✖ x=5
4. ✖ x=1.9

Question Number : 116 Question Id : 79840724002 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The time complexity of the following C function is(assume n >0)

```
int recursive ( int n)
{
if ( n==1) return(1);
else return( recursive (n-1) + recursive(n-1));
}
```

Options :

1. ✖ O (n)
2. ✖ O(n log n)
3. ✖ O(n^2)
4. ✔ O(2^n)

Question Number : 117 Question Id : 79840724003 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

If a class C is derived from class B which is derived from class A, all through public inheritance, then a class C member function can access

Options :

1. ✖ protected and public data in C and B
2. ✖ protected and public data only C
3. ✖ private data in A and B
4. ✔ protected data in A and B

Question Number : 118 Question Id : 79840724004 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

In C++ operator, << operator is called as

Options :

1. ✔ an insertion operator or put to operator
2. ✖ an extraction operator or get from operator
3. ✖ an insertion operator or get from operator
4. ✖ None of the given options

Question Number : 119 Question Id : 79840724005 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Function overloading in C++ is

Options :

1. ✔ A group function with the same name
2. ✖ all have the same numbers and type of arguments
3. ✖ functions with same name and same numbers and same type of arguments
4. ✖ None of the given options

Question Number : 120 Question Id : 79840724006 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

How constructor differ from destructor?

Options :

1. ✖ Constructors can be overloaded but destructors can't be overloaded
2. ✖ Constructors can take arguments but destructor can't
3. ✔ Constructors can be overloaded but destructors can't be overloaded and Constructors can take arguments but destructor can't
4. ✖ None of the given options

Question Number : 121 Question Id : 79840724007 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Abstract class cannot have

Options :

1. ✖ zero instance
2. ✖ multiple instance
3. ✔ Both zero instance and multiple instance
4. ✖ None of the given options

Question Number : 122 Question Id : 79840724008 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Usually a pure virtual function

Options :

1. ✖ has complete function body
2. ✖ will never be called
3. ✖ will be called only to delete an object
4. ✔ is defined only in derived class

Question Number : 123 Question Id : 79840724009 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

If x=5, y=2, then x ^ y equals (where, ^ is a bitwise XOR operator)

Options :

1. ✔ 00000111
2. ✖ 10000010
3. ✖ 10100000
4. ✖ 11001000

Question Number : 124 Question Id : 79840724010 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Run-time polymorphism is achieved by

Options :

1. ✖ friend function
2. ✔ virtual function
3. ✖ operator overloading
4. ✖ function overloading

Question Number : 125 Question Id : 79840724011 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The operator that cannot be overloaded is

Options :

1. ✖ ++
2. ✔ ::
3. ✖ ()
4. ✖ ~

Question Number : 126 Question Id : 79840724012 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The keyword friend does not appear in

Options :

1. ✖ the class allowing access to another class
2. ✖ the class desiring access to another class
3. ✔ the private section of a class
4. ✖ the public section of a class

Question Number : 127 Question Id : 79840724013 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

What is the appropriate pairing of items in the two columns listing various activities encountered in a software cycle ?

P) Requirements Capture	1) Module development and Integration
Q) Design	2) Domain Analysis
R) Implementation	3) Structural and Behavioral Modeling
s) Maintenance	4) Performance Tuning

Options :

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

Question Number : 128 Question Id : 79840724014 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which of the following software engineering concepts does Ada language support?

Options :

1. ✖ Abstraction
2. ✖ Generic
3. ✖ Information hiding
4. ✔ All the given options

Question Number : 129 Question Id : 79840724015 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Prototyping is used to

Options :

1. ✖ test the software as an end product
2. ✖ expand design details
3. ✔ refine and establish requirements gathering
4. ✖ None of the given options

Question Number : 130 Question Id : 79840724016 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Regression testing is primarily related to

Options :

1. ✖ functional testing
2. ✖ data flow testing
3. ✖ development testing
4. ✔ maintenance testing

Question Number : 131 Question Id : 79840724017 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Acceptance testing is done by

Options :

1. ✖ developers
2. ✔ customers
3. ✖ testers
4. ✖ None of the given options

Question Number : 132 Question Id : 79840724018 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Most Undesirable Type of Coupling is

Options :

1. ✖ Data Coupling
2. ✖ Control Coupling
3. ✖ Stamp Coupling
4. ✔ Content Coupling

Question Number : 133 Question Id : 79840724019 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Top-down design does not require

Options :

1. ✖ step-wise refinement
2. ✔ loop in variants
3. ✖ flow charting
4. ✖ modularity

Question Number : 134 Question Id : 79840724020 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which model is simplest model in software development?

Options :

1. ✔ Waterfall model
2. ✖ Prototyping model
3. ✖ Iterative model
4. ✖ None of the given options

Question Number : 135 Question Id : 79840724021 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Match the following

P) Waterfall model	1) Specifications can be developed Incrementally
Q) Evolutionary model	2) Requirements compromises are inevitable
R) Component based model	3) Explicitly addressing the problem of Risk during development
S) Spiral Model	4) Inflexible partitioning of the Project into stages

Options :

1. ✖ P-1, Q-2, R-3, S-4
2. ✖ P-4, Q-1, R-2, S-3
3. ✔ P-4, Q-3, R-1, S-2
4. ✖ P-3, Q-1, R-2, S-4

Question Number : 136 Question Id : 79840724022 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

A major defect in waterfall model in software development is that

Options :

1. ✖ the documentation is difficult
2. ✖ a blunder at any stage can be disastrous
3. ✔ a trial version is available only at the end of the project
4. ✖ the maintenance of the software is difficult

Question Number : 137 Question Id : 79840724023 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The approach to software testing is to design test cases to

Options :

1. ✖ break the software
2. ✖ understand the software
3. ✖ analyze the design of sub processes in the software
4. ✔ analyze the output of the software

Question Number : 138 Question Id : 79840724024 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

In a software project, COCOMO (Constructive Cost Model) is used to estimate

Options :

1. ✔ effort , cost and schedule based on the size of the software
2. ✖ size and duration based on the effort of the software
3. ✖ effort and cost based on the duration of the software
4. ✖ size, effort and duration based on the cost of the software

Question Number : 139 Question Id : 79840724025 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Beta testing is carried out by

Options :

1. ✔ users
2. ✖ developers
3. ✖ managers
4. ✖ None of the given options

Question Number : 140 Question Id : 79840724026 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

What is the difference between XML and HTML?

Options :

1. ✖ HTML is used for exchanging data, XML is not
2. ✖ XML is used for exchanging data,HTML is not
3. ✔ HTML can have user defined tags, XML cannot
4. ✖ XML is used for exchanging data,HTML is not (and) HTML can have user defined tags, XML cannot

Question Number : 141 Question Id : 79840724027 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

What are
tags used for?

Options :

1. ✖ To replace paragraph i.e. p tags
2. ✖ To logically divide the paragraphs
3. ✔ To logically divide the document
4. ✖ To provide space between tables

Question Number : 142 Question Id : 79840724028 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

What are meta tags used for?

Options :

1. ✔ To store information usually relevant to browsers and search engines
2. ✖ To only store information usually relevant to browsers
3. ✖ To only store information about search engines
4. ✖ To store information about external links

Question Number : 143 Question Id : 79840724029 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which is true to change the text colour to red?

Options :

1. ✖ <BODY BGCOLOUR=RED>
2. ✔ <BODY TEXT=RED>
3. ✖ <BODY COLOUR=RED>
4. ✖ None of the given options

Question Number : 144 Question Id : 79840724030 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Which tag is used to display the numbered list?

Options :

1. ✔ <OL></OL>
2. ✖ <DL></DL>
3. ✖ <UL></UL>
4. ✖ <LI></LI>

Question Number : 145 Question Id : 79840724031 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The most popular way to materialize XML document is to use

Options :

1. ✖ DTD
2. ✔ XSLT
3. ✖ HTML
4. ✖ SOAP

Question Number : 146 Question Id : 79840724032 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

The _____ method ensures that a new web page is generated.

Options :

1. ✖ GET
2. ✔ POST
3. ✖ DELETE
4. ✖ UPDATE

Question Number : 147 Question Id : 79840724033 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Apache Tomcat is a

Options :

1. ✖ servlet
2. ✖ Java program
3. ✖ web server
4. ✔ web server that is capable of running Java programs

Question Number : 148 Question Id : 79840724034 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

If T consist of 500000 transactions, 20000 transaction contain bread, 30000 transaction contain jam, 10000 transaction contain both bread and jam. Then the support of bread and jam is.....

Options :

1. ✔ 2 Percent
2. ✖ 20 Percent
3. ✖ 3 Percent
4. ✖ 30 Percent

Question Number : 149 Question Id : 79840724035 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

In Javascript, what does is NaN function do?

Options :

1. ✔ Return true, if the argument is not a number
2. ✖ Return false, if the argument is not a number
3. ✖ Return true, if the argument is a number
4. ✖ None of the given options

Question Number : 150 Question Id : 79840724036 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 0.66

Find the value of Math.round(-20.5)

Options :

1. ✖ -21
2. ✖ 20
3. ✔ -20
4. ✖ 21