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Introduction:

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What to Expect and What Not to Expect in this eBook?

Don't expect a huge number of questions which obviously is not possible in a simple e-book.

But expect a limited number of the most important types of questions commonly being asked in placement tests and interviews.

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Disclaimer:

The placement papers/questions discussed are SAMPLE and Unofficial and not from the respective companies. They have been framed based on the inputs and discussions from students based on their memory, to help the student community stay prepared. Contact Us using the contact form on the website careersvalley.com for any discrepancies and policy related questions.



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Section I – Placement Papers Section

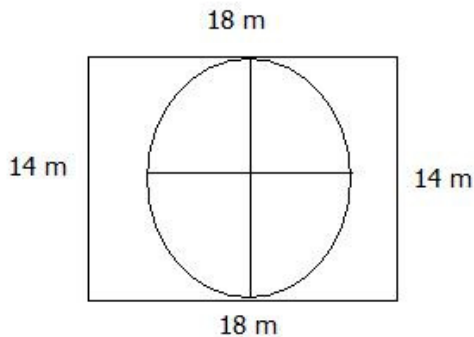
TCS Sample Questions

1) There is a rectangular shaped park and a circular garden inside the park. If the length and breadth of the park are 18 m and 14 m respectively then what will be the maximum possible area of the circular garden?

- a) 154 sq.cm b) 308 sq.cm c) 218 sq.cm d) 174 sq.cm

Answer : a) 154 sq.cm

Solution :



Given that a circular garden which is inside a rectangular park.

We have to find the maximum possible area of the garden.

i.e., we would find the area of the inscribed garden in rectangular park.

Also given that length of the park is 18 m and breadth of the park is 14 m.

Then the largest possible diameter of the inscribed garden is 14 m.

And the largest possible radius of the inscribed garden is 7 m.

Therefore, the required area = $\pi(r^2)$ sq.m = $(\frac{22}{7}) \times (7^2) = 22 \times 7 = 154$ sq.m

Hence the answer is 154 sq.m.



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2) There are 6 bottles of drinks out of which one is poisoned. If a man tastes a drop of that, he will die within 10 hours (Note : This part is different from that of the first question. In previous question it was "exactly at the 10th hour" but here it is "within 10 hours"). A doctor decides to check it out by using some number of mice within 16 hours. Then the minimum number of mice needed to find out the poisoned bottle is:

- a)2 b)4 c)6 d)3

Answer : d)3

Solution :

If mouse would die exactly at 10 hours then definitely 1 will be the answer but here the given condition says that mouse will die within 10 hours.

so this question can be solved by set theory.

There is a Formula to use for these types of problems :

Consider there are b bottles to be tested. Then the minimum value of m such that $2^m > b$ gives the minimum number of mice required.

In our case $b = 6$.

The minimum value of m for $2^m > 6$ is 3. ($2^1=2$, $2^2 = 4$, $2^3 = 8$. Only when $m = 3$, 2^m exceeds 6.)

3) In the adjoining diagram, ABCD and EFGH are squares of side 10 units such that they intersect in a rectangle of 4 units long with diagonal length (CE) = 5 units . Find the total area covered by the squares is:

- a) 100 b) 2 00 c) 188 d) 150

Answer : c) 188

Solution :

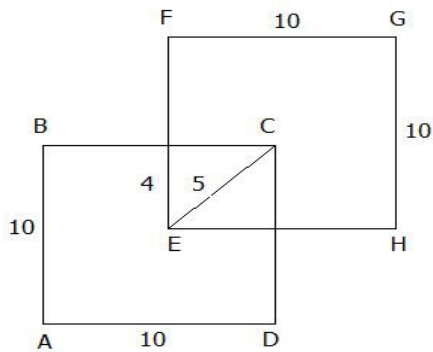


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Since the side of the squares are of 10 units then the area of each square is 100 unit^2 .

The diagonal of any rectangle of l units long and b units width is $\sqrt{l^2 + b^2}$.

It is given that $\sqrt{l^2 + b^2} = 5$ and $l = 4$

Then, $b^2 = 25 - 16 = 9$

$b = 3$ units.

Therefore the area of the rectangle $lb = 12 \text{ units}^2$.

Then, the total area covered by ABCD and EFGH in adjoining diagram = area of ABCD
+ area of EFGH - intersecting area between ABCD and EFGH (area of the rectangle)
 $= 100 + 100 - 12 = 188 \text{ unit}^2 = 188$

Hence the answer is 188.

4) Find the approximate distance between the points of X-intercept and Y-intercept respectively of the plane determined by the equation $11x - y = 17$.

- a) 17 b) 11 c) 1 d) 17/11

Answer : a) 17

Solution :

Given that the equation, $11x - y = 17$.

To find x-intercept, put $y = 0$ on the given equation:

i.e., $11x - 0 = 17 \Rightarrow x = 17/11$

This gives $x = 17/11$, i.e., x-intercept point is $(17/11, 0)$



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To find y-intercept, put $x = 0$.

$$\text{i.e., } 11(0) - y = 17$$

This gives $y = -17$, i.e., y-intercept point is $(0, -17)$.

Now, we have to find the distance between $(17/11, 0)$ and $(0, -17)$.

We know that, "the distance between the points (x_1, y_1) and (x_2, y_2) is $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ "

Then, the required distance = $\sqrt{(0 - 17/11)^2 + (-17 - 0)^2}$

$$\sqrt{17^2 (1/11^2 + 1)}$$

$$17\sqrt{1/121 + 1}$$

$$17\sqrt{122/121}$$

$$17/11 \sqrt{122}$$

$$17/11 \times 11.04$$

$$17.06$$

Hence the answer is 17 (approximately)

5) On dividing $(18377)^{10}$ by 11 the remainder will be

- a)1 b)10 c)9 d)2

Answer : a)1

Solution :

To Remember :

Fermat's Little Theorem states : "If a is an integer and not divisible by p then $a^{(p-1)} - 1$ is an integer multiple of p ".

i.e., we get the remainder 1 when we divide $a^{(p-1)}$ by p .

For example, consider $a = 7$ and $p = 3$. Here a is not divisible by p . $a^{(p-1)} - 1 = 7^{(3-1)} - 1 = 7^2 - 1 = 49 - 1 = 48$ is a multiple of 3

Here we have to divide $(18377)^{10}$ by a prime 11.

Now, take $a = 18377$ and $p = 11$

Then, $a^{(p-1)} = (18377)^{10}$



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Now, according to Fermat's Little Theorem, $a^{(p-1)} - 1$ i.e. $(18377)^{10} - 1$ should be an integer which is a multiple of 11

$(18377)^{10} - 1$ when divided by 11 gives no remainder

This implies $(18377)^{10}$ when divided by 11 gives 1 as remainder

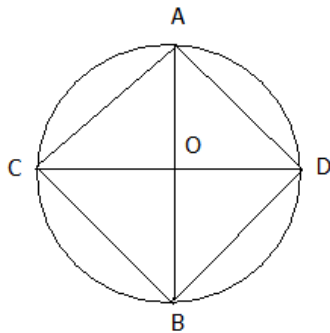
Hence the answer is 1.

6) A circle has 4 equal-length chords such that the points of intersection form a square and the diagonals of the square are the diameter of the circle, the number of points equidistant from all the 4 chords is

a)1 b)2 c) 0 d) 4

Answer : a)1

Solution :



The center of the circle is the only point.

First we select the 4 chords as follows:

Take two diameters AB, CD of the circle which are perpendicular to each other.

Now consider 4 chords with same length - AC, AD, BC and BD.

(Now the diagonals of the square are AB, CD and sides are AC, AD, BC, BD).

Obviously, the center of the circle is the only point which is equidistant from all the 4 chords.

Hence the answer is 1.



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7) At a distance of 2 meters from Arun, there is a circular dartboard with radius 50cm. What is the probability that Arun hit the board at a point P on the circle such that P is closer to the center of the circle than the periphery?

a) 1/2 b) 1 c) 1/4 d) 2/3

Answer : c) 1/4

Solution:

(These types of problems can be solved using an interesting method as described below.)

According to the requirement, we have to locate P closer to center in comparison to the circumference. For doing this we shall make a circle on that board whose radius will be half of the radius of the dartboard.

Now we will compare the area of the inner circle to the total area of the dartboard.

Area of whole circle = $\pi \times (50 \text{ cm})^2 = 2500\pi \text{ sq.cm.}$ (this is according to formula area = $\pi \times (\text{radius})^2$)

Similarly the area of inner circle = $\pi \times (25\text{cm})^2 = 625\pi \text{ sq.cm}$

Now the probability that Arun hit center = Area of inner circle / Area of dart board = $625\pi / 2500\pi = 1/4$

8) 4 equal aged boys and 6 equal aged girls were regularly attending a guitar class. 22 is the average age of all and 56 is the age of two boys and three girls. After 3 years a boy is replaced by a new boy aged 15. Now, what will be the average age of boys?

Options

a) 13.5 years b) 15.4 years c) 16.3 years d) 14 years

Answer : a) 13.5 years.

Solution:

Let X and Y be the age of a boy and a girl respectively.

Given that 22 is the average age of all.

Then $4X/4 + 6Y/6 = 22$

i.e., $X + Y = 22$...eqn1



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Also given that, 56 is the age of two boys and three girls.

Then, $2X + 3Y = 56$...eqn2

Solving the above equations, we get $X=10$, $Y=12$.

That is, the age of each boy is 10 and age of each girl is 12.

After 3 years, 1 among 4 boys leaves the group but replaced by a new 15 year old boy.

Sum of the ages of 3 left over boys + new boy = Ages of original 3 boys after 3 years +

Age of new boy = $3(X+3) + 15 = 3 \times 13 + 15 = 54$ years.

Their average age = Total Age / 4 = $54/4 = 13.5$ years.

13.5 Years is our answer.

9) When 8 is subtracted out from two third of X, the result is 25 more than one third of X.

Find the largest prime number which is less than X.

Options :

a) 113 b) 97 c) 89 d) 131

Answer : b) 97

Solution:

Part-1 : To find X.

Below equation can be formed based on the data in question.

$$(2/3) \times X - 8 = 25 + 1/3 \times X$$

$$(2/3) \times X - (1/3) \times X = 25 + 8$$

$$X/3 = 33$$

$$X = 99.$$

Part-2 : To find the required prime

97 is the largest prime number which is lesser than 99. Hence 97 is the answer.

10) 6 reduced from $1/5$ of a number is 7 reduced from half of the same number. Find the number.

Options

a) $10/3$ b) $22/3$ c) $7/3$ d) none of these



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Answer: a) $10/3$

Solution:

$$X/5 - 6 = X/2 - 7$$

$$(X-30)/5 = (X-14)/2$$

$$2X-60 = 5X-70$$

$$5X-2X = 70-60$$

$$3X = 10$$

$$X = 10/3$$

11) Four friends namely Rahul, Ravi, Rajesh and Rohan contested for a dairy milk chocolate. To decide which friend will get the chocolate they decided to throw two dice. Every friend was asked to choose a number and if the sum of the numbers on two dice equals that number, the concerned person will get the chocolate. Rahul's choice was 7, Ravi's choice was 9, Rajesh's choice was 10 and Rohan's choice was 11. Who has the maximum probability of winning the amount?

Options :

a) Rahul b) Ravi c) Rajesh d) Rohan

Answer : a) Rahul

Solution :

Number 7 will appear more often -- (1,6), (2,5), (3,4), (4,3), (6,1), (5,2) --- 6 cases

Number 9 -- (3,6), (6,3), (4,5), (5,4) --- 4 cases

For number 10 -- (4,6), (6,4), (5,5) --- 3 cases

For number 11 -- (5,6), (6,5) ... 2 cases.

Since number 7 has the maximum chance of appearing, it will have the maximum probability as well. Hence, Rahul will most probably be the winner.

(Next 4 questions are of interview type)

12) Assume you are one of the developer of a new Operating System. Please tell any one logical approach you would employ to get the OS out of deadlock scenarios?

Answer :



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Many approaches are possible. One possible and widely used approach is to roll back and restart in a different manner so that processes don't indefinitely wait for each other. For example if two processes are responsible for deadlocks, post rollback, I would schedule the processes so that one of them starts only after the other completes.

13) What is the difference between $a = ++b$ and $a = b++$?

Answer :

The first statement $a = ++b$ can be broken down into two statements $b = b + 1$ followed by $a = b$. Hence b will be incremented first and will be assigned to a. Hence values of a and b will be same at the end.

The second statement $a = b++$ can be broken down into two statements $a = b$ followed by $b = b + 1$. Hence b will be assigned to a. Only after this assignment b will be incremented. Hence values of a and b will be different at the end.

14) Is it necessary to use register modifier on all compilers irrespective of whether they are old or modern ones ?

Answer :

No, compilers nowadays are intelligent enough to decide which variables need to be kept in CPU registers depending upon the estimated usage.

15) Can a program be invoked from another program ? If yes, how it can be done ?

Answer :

Yes, a program can invoke another program using system calls.

16) Which of the following program structure/component/statement is not an example for the implementation of modularization ?

Options

- a) DLL b) Functions c) type casting

Answer :

Option c) type casting. DLL and Functions help in modularization of a program while typecasting just converts from one data type to another.



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What are the Common Sections?

With few exceptions, all most all companies give due importance to quantitative aptitude. From chapters like time and speed, age, linear equations, averages etc.

Verbal sections like synonyms and antonyms (GRE type), filling with right tenses etc. are again common across different placement papers.

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Infosys Sample Questions

1) Is the integer k is divisible by 40?

1) 8 is a factor of k

2) k is a factor of 10

Options :

(a) statement 1 alone is sufficient, but statement 2 alone is not sufficient to answer the question

(b) statement 2 alone is sufficient, but statement 1 alone is not sufficient to answer the question

(c) both statements taken together are sufficient to answer the question, but neither statement alone is sufficient

(d) each statement alone is sufficient

(e) statements 1 and 2 together are not sufficient, and additional data is needed to answer the question.

Answer : (b) statement 2 alone is sufficient, but statement 1 alone is not sufficient to answer the question.

Solution :

From statement 1,

suppose 8 is a factor of k then k can be 8, 16, 24 and so on.

Only some multiples of 8 are only divisible by 40

Therefore the statement 1 alone is not sufficient to derive the answer.

From statement 2,

The factors of 10 are 1,2,5 and 10.

If k is a factor of 10 then k belongs to $\{1,2,5,10\}$

No element in the above set is divisible by 40.

Hence k is certainly not divisible by 40. Hence using statement 2, we can give a conclusive answer that k is not divisible by 40.

Thus statement 2 alone is sufficient to answer the question.



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Hence the answer is option b.

2) From a bus stand, buses leave for every 15 minutes to both temple and Railway junction. First bus towards junction is at 7.00 am and towards temple is at 7.10 a.m. Suppose you have to visit both temple and junction and decide to go by the first bus you encounter. Then the probability to get a bus towards temple is ____ .

a)0.67 b)0.5 c)0.75 d)0.33

Answer : a)0.67

Solution :

Let us discuss an interesting method to solve such problems :

Let's simulate a 60 minute time period:

A period of 60 Minutes broken into intervals of 5 minutes each:

0 - 5 - 10 - 15 - 20 - 25 - 30 - 35 - 40 - 45 - 50 - 55 - 60(or "0" again)

Arrival of BUS : (t = temple, j = junction, X = no bus arrives at that particular time)

j - X - t - j - X - t - j - X - t - j - X - t - j

TO MAKE IT EASY TO UNDERSTAND WE HAVE WRITTEN THE SAME THING AGAIN.

0 - 5 - 10 - 15 - 20 - 25 - 30 - 35 - 40 - 45 - 50 - 55 - 60

j - X - t - j - X - t - j - x - t - j - x - t - j

0 10 5 10 5 10 5 10 5

The line written immediately above (that is the 3rd line of data) has numbers corresponding to "t" and "j" which shows how many minutes a person has to wait till he gets the "First bus".

Therefore,

t= 10 + 10 + 10 + 10 = 40 Minutes

j= 0 + 5 + 5 + 5 + 5 = 20 Minutes

Therefore in 40 minutes of standing time for the bus you will get t bus and in 20 minutes of standing time for the bus you will get j bus.

You will also see that this is the schedule for every hour after 7.00 A.M.



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This means that the probability to get t bus is = 40 Minutes / 60 Minutes = $\frac{2}{3}$ = 0.67

Also the probability to get j bus is = 20 Minutes / 60 Minutes = $\frac{1}{3}$ = 0.33

Hence the answer is 0.67

3) In a family there are several brothers and sisters. Every 2 boys have brothers as many as sisters and each girl has 2 brothers less than twice as many brothers as sisters. Now find the number of boys and girls.

a)6,8 b)8,6 c)12,10 d)6,4

Answer : b)8,6

Solution:

Let b be the number of brothers and s be the number of sisters in the family.

Consider any two boys. They would be having b - 2 brothers (excluding the two). But this number is equal to the number of sisters they have.

Therefore,

$$b - 2 = s$$

$$\text{or } b - s = 2 \text{ ---- (1)}$$

Each girl will have s - 1 sisters. Twice the number of sisters = $2(s - 1)$.

Since each girl has twice as many brothers as sisters, we have, $2(s-1)-2 = b$

$$2s - 4 = b \text{ ---- (2).}$$

Sub $b = 2s - 4$ in eq 1, we get

$$2s - 4 - s = 2$$

$$s = 6$$

Sub s in eq 1 we get,

$$b - 6 = 2$$

$$b = 8$$

4) Find the largest five digit number whose 4th digit is $\frac{2}{3}$ of the 5th digit and thrice of the 4th digit is 3rd digit and there are exactly 2 pairs of digits where difference between the numbers in each pair is 6.

a) 99623 b) 99485 c) 99678 d) 99523



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Answer : a) 99623

Solution :

4th digit is $\frac{2}{3}$ of the 5th digit, so the 5th digit should be a multiple of 3.

The possibilities of 4th and 5th digits are

1) 2, 3

2) 6, 9

3) 4, 6

The 2nd condition states that thrice of 4th digit is 3rd digit.

The 2nd and 3rd possibilities are ruled out since 18, 12 cannot be the digit of that number.

And the thrice of 2 is 6 which is the 3rd digit

So 3rd digit is 6, 4th digit is 2 and 5th is 3.

Since, We have to find the greatest 5 digit number, the 1st and 2nd digit may be 9.

And so, the number may be 99623.

By checking the 3rd condition that there is exactly 2 pairs of digits whose difference is 6.

i.e., 1st digit - 5th digit = 6 and 2nd digit - 5th digit = 6 and we have no other choices.

Hence the answer is 99623.

5) The Calendar for the year 2013 is the same as for the year?

a) 2020

b) 2018

c) 2017

d) 2019

Answer : d) 2019

Solution:

For calendar to repeat exactly, the dates and days have to match perfectly.

Consider 2014 :

Any date on 2014 will correspond to same date on 2013 advanced by one day. (same logic used in first question.) For example if Jan 1 is Tuesday on 2013, then Jan 1 will be Wednesday on 2014.

Year	2014	2015	2016 (leap year)	2017	2018	2019
Advanced days	1	1	2	1	1	1



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In 2019 the total number of advancements will be $1 + 1 + 1 + 2 + 1 + 1 = 7$. Any week has seven days. Hence advancement of 7 days also means the days are going to be the same for any dates. That is if 1st Jan on 2013 is Tuesday, then 1st Jan on 2019 will also be Tuesday.

Hence the calendar for the year 2013 and 2019 is the same.

6) Two persons - Srikanth and Kashyap start at --6 am on 19th February 2012 from two places – Coimbatore and Hyderabad (900 km away at) — each going towards the other end in two cars. Rupashri starts from Coimbatore at 7 am on the same day from Coimbatore towards Hyderabad. Srikanth, Rupashri and Kashyap travel at 40 km/hour, 60 km/hour and 50 km/hour respectively. Which pair will meet on the way – Srikanth – Kashyap or Kashyap-Rupashri or Srikanth-Rupashri.

a) Srikanth-Kashyap b) Srikanth-Rupashri c) Kashyap-Rupashri d) none of these.

Answer : b) Srikanth –Rupashri.

Solution :

Case I : Consider Srikanth and Kashyap

Distance between Coimbatore and Hyderabad - 900 km

Srikanth and Kashyap start at 6 am and their speeds are respectively 40 km/hour and 50 km/hour. So relative speed is $40 + 50 = 90$ km. Hence they will meet after [distance between them/relative speed] = $900/90 = 10$ hours from 6 am i.e 4 pm

Case II: Consider Rupashri and Kashyap

Rupashri starts at 7 am from Coimbatore – speed 60 km/hour. But since Kashyap had started at 6 am (1 hour earlier at 50Km/hr) he would have travelled 50 km by 7am.

Distance between them = $900 - 50 = 850$ km. Relative speed = $60 + 50 = 110$.

Rupashri and Kashyap will meet after [distance between them/relative speed] = $850/110 = 7$ and $8/11$ hours.

Case III: Consider Rupashri and Srikanth

On the other hand When Rupashri starts – 7 AM Srikanth would have travelled 40 km



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only (as Srikanth would have started at 6 am travelling at 40 Km/hr).

The speed of Rupashri and Srikanth = 60 and 40 km/hour. Relative speed of Rupashri with respect to Srikanth = $60 - 40 = 20$ km per hour (we are subtracting the speeds in relative speed calculation as they are both travelling in same direction) and hence Rupashri will cross/meet Srikanth after $[\text{distance between them}/\text{relative speed}] = 40/20 = 2$ hours i.e. at 9 am.

Inference : Considering all discussed cases above, Srikanth-Rupashri will meet first at 9 am.

7) A train starts from A towards B with some velocity. Due to an engine problem, after travelling $\frac{3}{8}$ of its journey, it slows to $\frac{3}{5}$ of its actual velocity. The train reaches B 1 hour later than the actual planned time. If the engine had failed after travelling 80km and if it would have slowed down to $\frac{4}{5}$ th of its initial velocity for another 80km and covered the remaining distance with $\frac{1}{2}$ of its initial velocity, the train would have reached the destination one and half hours late. What is the distance between A and B in meters?

a)10000 b)480000 c)240000 d)520000

Answer : b)480000

Solution:

Let the distance between A and B be X and the speed initially be V.

The train travels $\frac{3X}{8}$ km with speed V and the remaining distance $(X - \frac{3X}{8})$ km with speed $\frac{3}{5}$ of V. Ultimately the train was late by 1 hour.

According to the above condition with the formula " distance/speed = time", we can have

$$[(\frac{3X}{8})/V] + [(X - (\frac{3X}{8})) / (\frac{3V}{5})] = [X/V] + 1$$

$$[\frac{3X}{8V}] + \frac{5(8X - 3X)}{24V} = [X/V] + 1$$

$$9X + 25X - 24X / 24V = 1$$

$$10X - 24V = 0 \dots\dots\dots \text{eqn1}$$

According to the question, if the train travelled 80km with speed V, another 80km with $\frac{4}{5}$ th of V and the remaining distance $(X - 160)$ km with speed $\frac{1}{2}$ of V then

$$[80/V] + [80 / (\frac{4V}{5})] + [(X - 160) / (\frac{1V}{2})] = [X/V] + \frac{3}{2}$$



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$$80/V + 100/V + (2X-360)/V = X/V + 3/2$$

$$X-180 / V = 3/2$$

$$2X-3V = 360 \text{eqn2}$$

Solving eqn1 and eqn2

We have, X=480 and V=200

Thus the distance between A and B is 480km and the speed of the train is 200km/hour.

Hence 480km = 480000meters is the answer.

8) Agil is twice as fast as Mugil. Mugil is thrice as fast as Annie. The distance covered by Annie in 54 minutes will be covered by Mugil in ____ minutes.

a)27 minutes b)9minutes c)38 minutes d)18 minutes

Answer : d)18 minutes

Solution:

Let Annie's speed be X km/hr.

Its given, Mugil is thrice as fast as Annie. Therefore Mugil's speed is a 3X km / hr.

Also it is said Agil is twice as fast as Mugil. Therefore, Agil's speed = Mugil's speed x 2 = 6X km/hr.

Therefore ratio of their speeds = 6X : 3X : X = 6 : 3 : 1

For a given distance, the time taken will be inversely proportional to speed.

Therefore, Ratio of times taken by the three friends Agil, Mugil and Annie = 1/6 : 1/3 : 1 = 1 : 2 : 6

If Annie takes 6 minutes then Mugil takes 2 minutes.

If Annie takes 54 minutes then Mugil takes [2/6 x 54]= 18 minutes.

Hence the answer is 18 minutes

9) At the time of his marriage Arunachalam was 29 years old. During marriage, his wife was younger by 3 ½ years.20 years afterwards the total ages of Arunachalam, his wife and their only son Kamalraj is 110 years. What will be the age of Kamalraj forty years from now?

a) 35 1/2 years b) 45 1/2 years c) 25 years d) 30 years



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Answer : a) 35 1/2 years

Solution :

I. During Marriage

Arunachalam's age = 29 years

Wife's age = 29 - 3.5 = 25.5 years

II. 20 years afterwards

Arunachalam's age = 29 + 20 = 49 years

Wife's age = 25.5 + 20 = 45.5 years

Let Son's age (20 years after marriage) = S

It is given that, 20 years after the wedding, Arunachalam's age + Wife's age + S = 110

Or 49 + 45.5 + S = 110

S = 15.5 years

III. 40 years afterwards.

Since we have found that the son was 15.5 years old 20 years after marriage, adding 20 to 15.5 will give age of Kamalraj after 40 years.

Therefore answer = 15.5 + 20 = 35.5 years = 35 1/2 years.

10) Eight friends Harsha, Fakis, Balaji, Eswar, Dhinesh, Chandra, Geetha, and Ahmed are sitting in a circle facing the center.

Balaji is sitting between Geetha and Dhinesh. Harsha is third to the left of Balaji and second to the right of Ahmed. Chandra is sitting between Ahmed and Geetha and Balaji and Eshwar are not sitting opposite to each other. Who is third to the left of Dhinesh?

Answer: Fakis

Explanation: Arranging the friends as per the question statement we can arrive at the following diagram



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Ahmed

Fakis

Chandra

Harsha

Geetha

Eswar

Balaji

Dhinesh

Hence correct answer is Fakis.

11) Today is 4.11.09. Keeping that figure 41109 in mind, i have arrived at the following sequence: 2, 1, 9, 5, __. Which of the following four numbers can fill the dash?

Options

a) 7 b) 65 c) 4563 d) 262144

Answer : d) 262144

$$1^4 + 1 = 2$$

$$1^1 + 0 = 1$$

$$0^1 + 9 = 9$$

$$9^0 + 4 = 5$$

$$\text{So next is } 4^9 + 1 = 262144$$

12) There is a unique number of which the square and the cube together use all ciphers from 0 up to 9 exactly once. Which number is this?

Answer: The number is 69.

Explanation:

$$69^2=4761 \text{ and } 69^3=328509$$



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13) In a certain code RELATED is written as EFUBKDQ. How is RETAINS written in that code?

- a) SDQBTOJ b) JOTBQDS
c) JOTBSDQ d) TOJBSDQ

Answer : d) TOJBSDQ

Reason :

Inspecting how RELATED was written as EFUBKDQ, we can easily find that,

RELATED – is first written as DETALER

DETALE becomes EFUBKDQ (+1,+1,+1, +1,-1,-1,-1 – alphabetically)

Applying the same logic to RETAINS we get,

RETAINS is first written as SNIATER

SNIATER becomes TOJBSDQ (applying the above rule)

14) Six people – A,B,C,D, E and F are standing in a straight line facing north not necessarily in the same order. B is standing to the right of D. A is standing fourth to the left of F and F is not standing on the extreme end of the line. D is standing second to the left of B.

In the above arrangement, which of the following pair represents the people standing at the extreme ends of the line?

- a) DF b) AC c) BC d) AF

Answer : b) AC

Reason :

Based on the information given seating arrangement is as follows:

north

A D E B F C

south



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(Next 5 Questions are of interview type)

15) When the number of updates is very less or none, how an array can be advantageous over a linked list?

Answer :

Though arrays require more operations when it comes to updates, they require lesser memory than linked list. Hence, when there are none or less number of updates, an array can be advantageous.

16) Tell anyone important advantage array has over linked list when it comes to element access? You can explain your answer considering an example operation of reading an element at some fixed location from start?

Answer :

An array offers a kind of random access to its elements. This is possible only because of the reason that the elements are contiguous in memory. For example, consider an array that has 5 elements. These 5 elements will be at contiguous memory locations. If a program wants to read the 4th element of the array, it knows very well that incrementing the address pointer 4 times relative to the first element will land it at the exact location of the 4th element. However, in case of a linked list, the program has to traverse element by element. After an element is encountered, based on the address pointer the program will move on to the next element and so on.

17) Tell any two advantages offered by a DLL (Dynamic Link Libraries) to programmers.

Answer :

DLLs are shared across many processes. This sharing significantly reduces the memory requirement which in turn provides better memory management.

DLLs can provide great functionality enhancements without much rework on applications (like recompilation, relinking etc.).

18) Tell any two important features/characteristics of Telnet protocol?

Answer :

a. Telnet is bidirectional. That is participants can both send and receive information.



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b. Telnet is a text oriented protocol.

19) Tell any two features of 'Sessions' used in communications over the internet.

Answer :

a. Generally sessions exist only for a predefined period of time. For example, if you are accessing an eCommerce site, leaving the browser idle for an hour or so could automatically log you out.

b. By default HTML communications are stateless. But sessions can make the communication 'stateful'. For example, when you are accessing a shopping site, the shopping server will know that the subsequent requests are from the same buyer i.e. you. This state is maintained till session expiration.



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Wipro Sample Questions

1) Find the value of P when the line through the points (2,2) and (5,7) is perpendicular to the line $3x+Py-9=0$.

a)3/5 b)5 c)5/3 d)3

Answer : b)5

Solution:

A(2,2) and B(5,7) are the given points.

We know that the slope of the line through the points (x_1, x_2) and (y_1, y_2) is $y_2 - y_1 / x_2 - x_1$

Then the slope of the line AB is $m_1 = 7 - 2 / 5 - 2 = 5/3$.

The given eqn of the other line is: $3x + Py - 9 = 0$ ---(1)

We know that the slope of the line $ax+by+c=0$ is "-co-efficient of x / co-efficient of y".

then the slope of the line $3x + Py - 9 = 0$ is $m_2 = -3/P$.

For two lines to be perpendicular, the product of their slopes should be -1.

i.e., $m_1.m_2 = -1$

$5/3 \times -3/P = -1$.

$-5/P = -1$

$P = 5$

Hence the answer is 5.

2) The product of the distinct roots of the equation $(3x)(3x+2)(3x-4)(3x-6) = 64$ is:

a)-32/27 b)-61/5 c)63/16 d)69/12

Answer : a)-32/27

Solution:

Given that, $(3x)(3x+2)(3x-4)(3x-6) = 64$

Let $3x - 2 = p$

Then the given eqn becomes

$(p + 2) (p + 4) (p - 2) (p - 4) = 64$

$(p^2 - 4) (p^2 - 16) = 64$



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$$p^4 - 20p^2 + 64 = 64$$

$$p^4 - 20p^2 = 0$$

$$p^2(p^2 - 20) = 0$$

$$p^2 = 0 \text{ or } p^2 - 20 = 0$$

$$p = 0 \text{ or } p = \sqrt{20} \text{ or } p = -\sqrt{20}$$

$$\text{then } 3x - 2 = 0, 3x - 2 = \sqrt{20} \text{ or } 3x - 2 = -\sqrt{20}$$

$$\text{and } x = 2/3, x = [2 + \sqrt{20}] / 3 \text{ or } x = [2 - \sqrt{20}] / 3$$

Now the distinct roots of the given eqn are $2/3$, $[2 + \sqrt{20}] / 3$ and $[2 - \sqrt{20}] / 3$

$$\text{The product of the distinct roots} = \frac{2}{3} \times \frac{[2 + \sqrt{20}]}{3} \times \frac{[2 - \sqrt{20}]}{3} = \frac{2[(2^2) - (\sqrt{20})^2]}{27} = -\frac{32}{27}$$

Hence the answer is $-32/27$.

3) A merchant had a diamond, cost of which varies as a square of its weight. The merchant broke the diamond into 3 pieces in the ratio (based on weights) 4:5:6. When the pieces were sold he incurred a loss of Rs.444000. What could be the original price of the diamond.

- a)Rs.750000 b)Rs.665000 c)Rs.600000 d)Rs.675000

Answer : d) Rs.675000.

Solution:

As given, the weights of the broken pieces are in the ratio 4:5:6.

Let the actual weights of broken pieces be $4X, 5X$ and $6X$.

Then weight of the original diamond = $4X + 5X + 6X = 15X$

Since the cost of a diamond varies as its square of the weight, the original cost will be $(15X)^2 = 225(X^2)$ (1)

The total cost of individual pieces will be $(4X)^2 + (5X)^2 + (6X)^2 = (16 + 25 + 36) \times (X^2) = 77(X^2)$ (2)

The loss value = (1) - (2) = $225(X^2) - 77(X^2) = 148(X^2)$.

But the above loss value is given to be Rs.444000

Therefore, $148(X^2) = \text{Rs.}444000$

$X^2 = \text{Rs.}444000/148$.



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=Rs.3000

Original cost = $225(X^2) = 225 \times 3000$

= 675000

Hence the answer is Rs.675000.

4) X and Y can complete a work in 12 days and 10 days respectively. With the help of Z, X and Y can together complete the work in 5 days for a total wage of Rs.6000. Then what wage should be paid to Z for his part of the work?

a) Rs.1000 b) Rs.1500 c) Rs.500 d) Rs.2000

Answer : c) Rs.500

Solution:

From given data,

X's 1 day work = $1/12$

Y's 1 day work = $1/10$

If X,Y and Z would complete the work in 5 days, then Z's 1 day work = One day work of

X,Y and Z combined - (One day work of X + One day work of Y) =

$1/5 - [(1/12) + (1/10)]$.

= $1/5 - 11/60 = 1/60$.

Now we have to find Z's share of the salary.

X's share : Y's share : Z's share = $1/12 : 1/10 : 1/60 = 5 : 6 : 1$

Z's share of wage from the total wage of Rs.6000 = $1/(5 + 6 + 1) \times 6000 = \text{Rs.}500$

5) Gautam is good in sculpturing. He makes a sculpture of height 4 feet 8 inches and places them on a sandal pedestal. If the total height of sculpture and the pedestal put together is 7 feet 3 inches, what is the height of the pedestal?

a) 2 feet 4 inches b) 5 feet 2 inches c) 2 feet 7 inches d) none of these

Answer : c) 2 feet 3 inches

Solutions :



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Total Height = Height of the sculpture + Height of the pedestal

7 feet 3 inches = 4 feet 8 inches + Height of the pedestal

Height of the pedestal = 7 feet 3 inches - 4 feet 8 inches

Writing all the measurements in units of inches we get,

Height of the pedestal = $7 \times 12 + 3$ inches - $4 \times 12 + 8$ inches = 87 inches - 56 inches =

31 inches = 2×12 inches and 7 inches = 2 feet 7 inches

6) If a varies inversely as $1/(b+3)$ and $a = 10$ when $b = 2$ then express a in terms of b .

a) $a=2(b+3)$ b) $a=1/(b+3)$ c) $a=(b+3)$ d) $a=10b$

Answer : a) $a=2(b+3)$

Solution :

Given that, $a = k/(1/b+3)$ where k is a constant

$a(1/b+3) = k \dots\dots(1)$

Put $a = 10$ & $b = 2$, we have

$10(1/5) = k$

$k = 2$

Substitute k value in eqn(1),

$a / b+3 = 2$

$a = 2(b+3)$

Hence, the answer is $a = 2(b+3)$

7) Raghavan and Krishnan started from Chennai to Mumbai in two different cars at 10 am one day. Raghavan was driving his car at 50 kmph and Krishnan was driving his car at 40 km per hour. Around 11 am their friend Gopalan started in his car from Chennai and drove his car at 70 kmph. At what time Gopalan will overtake Raghavan and Krishnan?

a) 1.00pm and 12.20 pm b) 1.30 pm and 12.10 pm
c) 1.30 pm and 12.20 pm d) none of these.

Answer : c) 1.30 pm and 12.20 pm



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Solution :

Raghavan and Krishnan would have travelled 50 km and 40 km by the time Gopalan starts at 11 am.

Gopalan is driving at 70 kmph.

Relative speed – Gopalan with respect to Raghavan = $70 - 50 = 20$ kmph

Distance travelled by Raghavan when Gopalan started = 50 km.

To catch up with Raghavan, time taken by Gopalan = Distance covered by Raghavan when Gopalan starts / Relative speed of Gopalan with respect to Raghavan = $50/20 = 2\frac{1}{2}$ hours.

Therefore, he will overtake Raghavan at $11.00 + 2.30 = 1.30$ pm.

Relative speed of Gopalan with respect to Krishnan = 30 kmph

Distance travelled by Krishnan when Gopalan started = 40 Km.

Time taken by Gopalan to cross Krishnan = Distance covered by Krishnan when Gopalan started / Relative speed of Gopalan with respect to Krishnan = $40/30 = 1.33$ hours = approximately 1 hour 20 minutes

Gopalan is starting at 11 am . So he will overtake Krishnan at $11 + 1\text{ hr } 20\text{ min} = 12.20$ pm

(Next 8 questions are of interview type)

8) What is the basic difference between Stacks and Queues in data structures?

Answer :

A stack is a data structure where the last element inserted is processed first i.e if an element E4 is inserted after E3 into a stack, the first element to be retrieved will be E4 followed by E3. In Queue processing order is exactly opposite to that of Stack. The first element inserted will be the first one to be processed/served.

9) Any OS plays a major role in a very prominent task called "Scheduling". This is basically an implementation of scheduling algorithms developed over years. Which of the following resources are affected by this implementation?

- a. Throughput time of processes
- b. Waiting time of processes



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c. Turnaround time of processes

d. All of the above

Answer : d. All of the above.

Explanation : In simple terms, Scheduling algorithms determine when and what resources need to be allocated to which processes/threads. Hence all the performance related parameters associated with processes are affected in totality.

10) Briefly can you explain a 'database trigger'?

Answer :

A database trigger is a predefined code that gets executed based on certain events on tables. For example, a trigger can be written that executes automatically whenever a particular column gets updated in a table. Though they are memory intensive, they can be used for critical background tasks to maintain data integrity.

11) Tell a common error encountered by programmers when using stack data structures without proper precautions?

Answer :

Stack Overflow is a common error when dealing with stack data structures. This occurs when data is pushed onto stack till a point when there is no further memory is available. Good programming and understanding of the resource limitations of the underlying machine can prevent these errors.

12) When a program is under execution, what does a Program Counter (PC) hold?

Answer :

When a program is in execution, the program counter holds the address of the next instruction to be executed.

13) (Generally) In an application development life cycle, give the proper order of the following stages : Testing, Test Plan Preparation, Development, Requirement Gathering.

Answer :



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Correct order would be : Requirements Gathering, Test Plan Preparation, Development and Testing.

14) Can you guess why IPv6 (Internet Protocol version 6) addresses came into existence while still IPv4 is being used by many machines?

Answer :

The only reason could be the enormous growth in the number of machines using v4 addresses. This forces concerned agencies to raise the address pool by some means. One of such ways was the introduction of IPv6 so that more machines can be accommodated.

15) Consider two network layer devices, one operating at network layer and the other operating at data link layer. In very generic terms, which one is more intelligent ? Explain with example.

Answer :

Generally a device that operates at a higher layer in OSI model is intelligent. For example, there are switches that operate at data link layer and some others that operate at network layer. Simply due to the additional capabilities of the switches that operate in network layer they can be considered more intelligent.

16) What is the main drawback when using Hubs in networks ?

Answer :

Hubs are least intelligent devices transmitting whatever data they receive into all the output ports. Though this behaviour can be favourable in some cases, most of the times this behaviour results in unnecessary traffic in the network. More network consumption leads to problems like collision and congestion.

17) In socket communication happening between a client and a server, how can you tell which one is a client and which is a sever ?

Answer :



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Consider two network devices communicating through network sockets. In many cases a client initiates a transaction. For example, your computer could request a web page from a server. This implies that your computer is initiating the connection and is a client. The responding machine will be the server.



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CTS Sample Questions

1) There is a group of 5 boys and 2 girls. The two groups working together can do four times as much work as a boy and a girl. Ratio of working capacities of a boy and a girl is:

- a)1:3 b)1:2 c)2:1 d)2:3

Answer : c)2:1

Solution :

Let 1 boy's 1 day's work = x

And 1 girl's 1 day's work = y

Now, (5 boys + 2 girls)'s work = $5x + 2y$

Given that $5x + 2y$ is equal to 4 times work done by a boy and a girl.

i.e., $5x + 2y = 4(x+y)$

$5x + 2y = 4x + 4y$

$x = 2y$

$x/y = 2/1$

Hence, the required ratio is 2:1

2) A group of teachers from Venkat Engineering College went to a hotel for celebrating a happy event with an understanding all of them will share the expenses. The bill amount was Rs.2560. Since four teachers did not bring their purse other teachers had to contribute Rs.32 more. How many teachers contributed towards the bill settlement?

- a) 24 b) 16 c) 20 d) none of these.

Answer : b) 16

Solution :

Let the number of teachers be x.

Total bill amount = Rs. 2560.

Share of each teacher = $2560/x$

But, 4 teachers failed to bring their purse.

Number of teachers who actually paid = $x - 4$

Each one had paid Rs. 32 more than the planned share of $2560/x$ so as to settle the bill



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amount of Rs. 2560

$$\text{Therefore, } (x - 4)(2560/x + 32) = 2560$$

$$2560 + 32x - 10240/x - 128 = 2560$$

Multiply both sides by x.

$$2560x + 32x^2 - 10240 - 128x = 2560x$$

$$32x^2 - 128x - 10240 = 0$$

$$x^2 - 4x - 320 = 0$$

Factorizing the above equation, we get

$$(x - 20)(x + 16) = 0$$

$$x = +20 \text{ or } -16$$

Since x cannot be negative, $x = 20$ = total number of teachers.

Since, 4 teachers did not carry their purses, number present at the party = $20 - 4 = 16$

Therefore, our answer = 16.

3) What number should come at the place of the question mark ?

16, 136, 1096, ?

- a) 4998 b) 6884 c) 8776 d) none of these

Answer : c) 8776

Solution :

$$(16 \times 8) + 8 = 136$$

$$(136 \times 8) + 8 = 1096$$

$$(1096 \times 8) + 8 = 8776$$

4) Find the number that should replace the question mark.

4200, 1680, 672, ?

- a) 268.8 b) 324.8 c) 242.8 d) 122.8

Answer : a) 268.8

Solution :



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$$4200/2.5 = 1680$$

$$1680/2.5 = 672$$

$$672/2.5 = 268.8$$

5) Kashinath, can row 5 kmph in still water. When the rate of flow of the river is 2.0 kmph , it takes Kashinath 1 hour to row to a ghat and return. How far is Kashinath's starting place from the ghat ?

- (a) 2 km (b) 2.1 km (c) 2.5 km (d) 2.8 km

Answer : b) 2.1 km

Solution:

Let d be the distance of ghat from the point where Kashinath starts to swim.

Let Sk be the speed of Kashinath in still water

Let Sr be the speed of the stream (river)

Then, Sdown = Sk + Sr ...(1)

And Sup = Sk - Sr ...(2)

Time taken to travel downstream to ghat = d / Sdown

Time taken to travel upstream from ghat = d / Sup

Total time taken, T = d / Sdown + d / Sup

Substituting values from eq1 and eq2 in the above equation we get,

Or, T = d/(Sk + Sr) + d/(Sk - Sr)

T = d(Sk - Sr) + d(Sk + Sr) / (Sk + Sr)(Sk - Sr)

T = 2dSk / (Sk² - Sr²)

Or d = T (Sk² - Sr²) / 2Sk ...(3)

Note : Remember the above formula as this can prove to be a shortcut.

Substitute T = 1 hour, Sk = 5 Kmph and Sr = 2 Kmph in equation 3 we get

$$d = 1(5^2 - 2^2) / 2 \times 5 = 21 / 10 = 2.1 \text{ km}$$

6) Janaki gets onto the elevator at the 8th floor of a building and rides up at the rate of 60 floors per minute. At the same time, Ajay gets on another elevator at the 71st floor of



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the same building and rides down at the rate of 66 floors per minute. If they continue travelling at these rates, then in which floor will their paths cross?

- a. 31st floor b. will never cross c. 38th floor d. 12th floor

Answer : c. 38th floor

Solution:

Speed of Janaki upwards = 60 floors/min

Speed of Ajay downwards = 66 floors/min

No of floors in between 8th and 71st floors = $71 - 8 = 63$ floors

Let t be the time after which they cross each other. In other words, after t minutes the number of floors covered by Ajay downwards added to the number of floors Janaki covers upwards should be equal to 63 floors. Putting this in the form of an equation we get :

$$60t + 66t = 63$$

$$\text{Or } 126t = 63$$

$$\text{Or } t = 63/126 = 1/2 \text{ minutes}$$

Therefore, in half a minute both will cross each other. Floors travelled by Janaki upwards in $1/2$ min can be found as below :

Time	Floors
------	--------

1	60
---	----

$1/2$?
-------	---

Floors travelled by Janaki upwards in $1/2$ min = $60/2 = 30$ floors

Since Janaki is already starting from 8th floor, the floor of crossing counted from ground floor will be $8 + 30 = 38$ th floor.

(Next 4 questions are of interview type)

7) Which of the following is not true regarding Normalization of databases ?

- a. Redundancy of data is increased.
- b. Data integrity is efficiently maintained
- c. Concurrent processing becomes easier for heavily transactional databases
- d. Data dependencies are minimized



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Answer : a. Redundancy of data is increased

Explanation :

One of the major goals of normalization is to reduce redundancy (i.e duplication of data when not really needed.)

8) Tell at least two uses of NORMALIZATION in designing tables and other structures in a database ?

Answer :

Normalization ensures that a) there is no redundant data storage and b) data dependencies across tables (foreign keys) are suitable for the level of concurrency.

9) How Databases handle concurrent SQL operations on the same row of a table?

Answer :

Concurrent operations are handled by the use of "Locks". To be more clear, if one sql query is updating (INSERT/UPDATE) a particular row of a table, no other sql query would be able to update the same row at the same point in time. However other sql queries can read (SELECT) columns from the row under updation.

10) In SDLC, what is black box testing (which comes under testing phase) ?

Answer :

Black box testing is nothing but testing the actual functionality of a module/program at a high level. Here one may test different outputs for different sets of inputs. Also the one may not worry about the module/program internals under testing.



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HCL Sample Aptitude Questions

1) One day when Ram was walking on the street, one boy requested him to donate for cancer patients welfare fund. He gave him a rupee more than half the money he had. He walked a few more steps. Then came a girl who requested him to donate for poor people's fund for which he gave two rupees more than half the money he had then. After that, again a boy approached him for an orphanage fund. He gave three rupees more than half of what he had. At last he had just one rupee remaining in his hand.

How much amount did Ram have in his pocket when he started?

- a)Rs.72 b)Rs.58 c)Rs.35 d)Rs.42

Answer : d)Rs.42

Solution:

Let X be the rupees Ram initially had.

he gave a rupee more than half the money he had for cancer's fund.

i.e., he gave $Rs.1 + X/2$.

so the remaining money = $X - (1 + X/2) = X/2 - 1$.

then he offered 2 rupees more than half the money he had for poor people's fund.

i.e., he gave $2 + 1/2 \times (X/2 - 1) = 2 + (X-2)/4 = (6+X)/4$

so the remaining money = $X/2 - 1 - (6+X)/4 = (X-10)/4$.

again he gave 3 rupees more than half of what he had for orphanage

i.e., he gave $3 + 1/2 \times (X-10)/4 = 3 + (X-10)/8 = (14+X)/8$

now the remaining money $(X-10)/4 - (14+X)/8 = (2X-X-20-14)/8 = (X-34)/8$

As given, finally he had one rupee remaining so $(X-34)/8 = 1$

i.e., $X-34 = 8$

$X = 8+34 = 42$

Hence Ram had Rs.42 initially in his pocket

2) A man buys 50 mangoes from a shop for Rs 5 per fruit. In the next shop he buys 100 mangoes at Rs 4 per fruit. He mixes mangoes purchased from both shops. Now at what price he must sell each mango to get a profit of 25% on each fruit he sells.



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- a)Rs.5.4 b)Rs.5.2 c)Rs.5.3 d)Rs.5.5

Answer : a)Rs.5.4

Solution :

Total money spent on first 50 mangoes = Rs. 50×5 = Rs. 250

Total money spent on next 100 mangoes = Rs. 100×4 = Rs. 400

Net amount spent on all 150 mangoes - Rs. 250 + Rs. 400 = Rs. 650

Effective cost price of each mango = Rs. $650/150$ = Rs. $13/3$

Selling price of each mango so as to gain 25% profit = cost price $\times 125/100$ = $13/3 \times 125/100$ = Rs 5.4 (approximately)

3) A group of students were proceeding on an education excursion. One of the students told:The arithmetic mean of 2 numbers is 32.5 and their geometric mean is 30. One of the numbers will be

- a) 20 b) 42 c) 12 d) none of these.

Answer : a) 20

Solution :

Let the numbers be x and y

Arithmetic mean of the two numbers 32.5

Then, $(x+y) / 2 = 32.5$

So, $x + y = 65$ or $y = 65 - x$...(1)

Geometric mean of x and y = $\sqrt{xy} = 30$

Hence $xy = (30)^2 = 900$

Substituting the value of y from equation 1 in the above equation we get,

$$x(65-x) = 900$$

$$\text{or } x^2 - 65x = 900$$

$$x^2 - 65x - 900 = 0$$

$$(x-45)(x-20) = 0$$

Hence $x = 45$ or 20

Or $y = 20$ or 45



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4) Rajarajan retired after serving in Indian army as Lt. Colonel. Rajarajan's age is 20 times that of number of daughters he has. Each of his daughters has as many daughters as they have sisters. If total number of grand daughters of Rajarajan is 1/3rd of the number of daughters, find the age of Rajaran.

a) 72 b) 90 c) 80 d) 70

Answer : c) 80

Solution I :

Let the number of daughters of Rajarajan be - x

No. of sisters each daughter has - $(x-1)$

No. of daughters for each daughter - $(x-1)$

Then total number of granddaughters - Number of daughters \times Number of granddaughter per daughter = $x (x - 1)$

It is given that total number of granddaughters of Rajarajan is 1/3rd of the number of daughters.

Therefore $x = \frac{1}{3} (x (x - 1))$

Or $x - 1 = 3$ or $x = 4$.

It is given that Rajarajan's age is 20 times that of number of daughters.

Therefore, his age = $20 \times 4 = 80$.

Solution II : (short cut)

Actually there is a simpler short cut to this problem. Since it is given that Rajarajan's age is 20 times that of number of daughters , his age should be divisible by 20. Among the options given only 80 is divisible by 20. Hence it is the answer.

5) Murari can complete a task in 14 days. Murari and Karthikeyan together can do it in 40 days. In Project titled 'ABC' What part of the work was carried out by Murari?

I. During project 'ABC' Murari completed the job alone after Murari and Karthikeyan worked together for 5 days.

II. Part of the work done by Murari during project 'ABC' will be lesser than that of Alamelu's work when Karthikeyan and Alamelu work together for 6 days.



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Options :

- a) if the data in Statement I alone is/are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.
- b) if the data in Statement II alone is/are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.
- c) if the data either in Statement I or in Statement II alone is/are sufficient to answer the question.
- d) if the data even in both Statements I and II together are not sufficient to answer the question.
- e) if the data in both Statements I and II together are necessary to answer the question.

Answer : a) data in Statement I alone is/are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.

Solution :

To prove this, let us try to solve the question with the data from statement I in hand :

Murari can do the job in 14 days. One day of Murari's work = $1/14$. \rightarrow eq 1

Murari and Karthikeyan can do the job in 40 days. So in one day Karthikeyan can do $1/14 - 1/40 = 13/280$ of the work

Statement I says both of them work together for 5 days during project 'ABC'. Therefore work completed by both during the first 5 days of the project

= (one day's work of Murari + one day's work of Karthikeyan) \times 5

= $(1/14 + 13/280) \times 5 = 33/280 \times 5 = 33/56$

Work that remains in project ABC = whole unit of work - part of work completed during first 5 days = $1 - 33/56 = 23/56 \rightarrow$ eq 2

After 5 days, the remaining work i.e $23/56$ of work will be taken care by Murari alone.

Therefore work done by Murari alone in the project 'ABC' = five days of Murari's work + remaining work of Murari after 5 days

= (one day work of Murari) \times 5 + remaining work of Murari after 5 days

Substituting values from eq 1 and eq 2 in the above equation we get



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work done by Murari alone in the project 'ABC' = $(1/14)5 + 23/56$

$(23 + 20)$ divided by $56 = 43/56$

Statement II doesn't help us in any way because it just says Murari's contribution would be lesser than that of Alamelu if Karthikeyan and Murari work together. With this we can't calculate the work done by Murari alone.

(Next 12 questions are of interview type)

6) Who is the creator of 8086 microprocessor?

- a. Microsoft
- b. Intel
- c. Apple
- d. Mac

Answer : b. Intel.

7) The phase that identifies an efficient execution plan for evaluating a query that has the least estimated cost is referred to as ____.

Options

- a) Query optimization
- b) Query String

Answer : a) Query optimization

8) Can a non maskable interrupt in 8086 be turned off by a programmer?

- a. Yes
- b. No

Answer : No, a non maskable interrupt cannot be turned off.

9) A collection of conceptual tools for describing data, data relationships data semantics and Constraints is called as ____.

Options

- a) Data base
- b) Table



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c) Data model

Answer: Data model

5) _____ is copying the three sets of files (database files, redo logs, and control file) when the instance is shut down. This is a straight file copy, usually from the disk directly to tape. You must shut down the instance to guarantee a consistent copy.

Options

a) cold backup

b) hot backup

c) Armstrong Rules

Answer : cold backup

11) _____ is a program module, which ensures that database remains in a consistent state despite system failures and concurrent transaction execution proceeds without conflicting.

Options

a) Transaction manager

b) File manager

c) None of these

Answer : Transaction manager

12) _____ is a program module that provides the interface between the low-level data stored in database, application programs and queries submitted to the system.

Options

a) Buffer manager

b) Storage manager

C) None of these

Answer : Storage manager

13) A _____ with respect to DBMS relates to user commands that are used to interact with a database.



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Options

- a) Connection string
- b) Query String
- c) Query

Answer : Query

14) In Very Simple Terms, Can you describe what is actually a Database Server instance?

Answer :

Every Database Server Instance is a complete server by itself with own set of databases, login credentials etc. A single machine that has many server instances can be logically compared to multiple machines with their own Database Server installations.

15) Will executing/operating more than one Database Server instances on a single machine affect performance of applications adversely?

Answer :

More than one instance would require more memory and processor related resources than single instance on the same machine. But, more than one instance can speed up applications by allowing multiple applications to operate on multiple instances of Database Server simultaneously.

16) What could be the role of a server administrator to keep up the performance of machine with multiple instances?

Answer :

The server administrator is responsible for striking a balance between number of allowed SQL instances and system's hardware resources.

17) Can databases on multiple instances have same names?

Answer :

Yes. Any database on an instance is completely local to that database.



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Accenture Solved Questions

Note: some questions are directly given with answers and solutions without having options.

(Next 12 questions are of interview type)

1) (State True or False). The Java interpreter is used for the execution of the source code.

Options

True

False

Answer : True

2) What declarations are required for every Java application?

Answer : A class and the main() method declarations.

3) What are the two primary components involved in executing a Java program and their purposes?

Answer : Two parts in executing a Java program are:

Java Compiler and Java Interpreter.

4) What are the three basic OOPs principles and define them?

Answer : Encapsulation, Inheritance and Polymorphism are the three OOPs Principles.

Encapsulation :

Is the Mechanism that binds together code and the data. It manipulates, and keeps both safe from outside interference and misuse.

Inheritance :

Is the process by which one object acquires the properties of another object.

Polymorphism :

Is a feature that allows one interface to be used for a general class of actions.

5) What are identifiers and what are their naming conventions in C?



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Answer : Identifiers are used for class names, method names and variable names. An identifier may be any descriptive sequence of upper case & lower case letters, numbers or underscore or dollar sign and must not begin with numbers.

6) What is the return type of program's main() method?

Answer : void

7) What is the use of bin and lib in the JDK?

Answer : Bin contains all tools such as javac, applet viewer, awt tool etc., whereas Lib contains all packages and variables.

8) The Java source code can be created in a Notepad editor.

Options

a) True

b) False

Answer : True

9) In C, arrays can be passed by reference. State True or False.

Answer:

Yes, it is true, arrays are passed by reference (Though individual or group of elements of the array can be passed by value/values as well.)

10) Name the function which takes two strings as arguments and copies the second string into the character array of the first string. After this the function returns the value of the first string.

Answer: strcpy is the answer.

11) Blocks are chosen randomly on a chessboard. What is the probability that they are on the same diagonal?

Answer :

There are a total of 64 blocks on a chessboard. So 3 blocks can be chosen



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out of 64 in $64C3$ ways.

So the sample space is $= 41664$

There are 2 diagonal on chessboard each one having 8 blocks. Consider one of them. 3 blocks out of 8 blocks in diagonal can be chosen in $8C3$ ways.

But there are 2 such diagonals, hence favourable $= 2 * 8C3 = 2 * 56 =$

112 The required probability is

$$= 112 / 1664$$

$$= 1 / 372$$

$$= 0.002688$$

12) What is the area of the triangle ABC with $A(e,p)$ $B(2e,3p)$ and $C(3e,5p)$?
where $p = \pi$ (3.141592654)

Answer:

A tricky ONE.

Given 3 points are collinear. Hence, it is a straight line.

Hence the area of a triangle is 0.

13) Three water tanks A,B and C where A is twice that of B. Tank A and B can be filled at the steady rate of 20 litres per hour and the excess water is filled with tank C. The pipe is opened for 2 days and $1/5$ th of tank A is filled after 8 hours. Find the amount of water(in litres) in tank C after 2 days.

a)720 b)580 c)160 d)560

Answer : a)720

Solution :

$1/5$ th of tank A is filled in 8 hours.

Time taken to fill the tank A is $8 / (1/5) = 40$ hours.

Water is opened for 2 days i.e., 48 hours.

Since, tank A is filled, the excess water poured into C for $(48 - 40) 8 \text{ hrs} = 8 \times 20 = 160$ litres



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Given that A is two times of B.

i.e., the Volume of tank A = 2 (volume of tank B).

Time taken to fill tank B is $40 / 2 = 20$ hours.

Now, the excess water poured into C from B for $(48 - 20) = 28$ hrs = $28 \times 20 = 560$ litres.

Therefore, the total amount of water in tank C = $160 + 560 = 720$ litres.

Hence the answer is 720.

14) Consider the sum: $ABC + DEF + GHI = JJJ$. If different letters represent different digits, and there are no leading zeros, what does J represent?

Answer

The value of J must be 9. Since there are no leading zeros, J must be 7, 8, or 9. ($JJJ = ABC + DEF + GHI = 14? + 25? + 36? = 7??$) Now, the remainder left after dividing any number by 9 is the same as the remainder left after dividing the sum of the digits of that number by 9. Also, note that $0 + 1 + \dots + 9$ has a remainder of 0 after dividing by 9 and JJJ has a remainder of 0, 3, or 6. The number 9 is the only number from 7, 8 and 9 that leaves a remainder of 0, 3, or 6 if you remove it from the sum $0 + 1 + \dots + 9$. Hence, it follows that J must be 9.

15) Using two 2's and two 3's and using a maximum of three mathematical signs, symbols, can you have a result in between 14 and 15? Concatenation (clubbing of digits) allowed.

Solution:

$$(23 + 3!) / 2 = 14.5$$

16) $a*b*c*d*e + b*c*d*e*f + a*c*d*e*f + a*b*d*e*f + a*b*c*e*f + a*b*c*d*f = a*b*c*d*e*f$ and a,b,c,d,e and f are all positive nonrepeating integers then solve a,b,c,d,e, and f.

Solution :

Start with $1/2 + 1/2$, then progressively split the last part x into $2x/3 + x/3$. This gives the following progression:

2,2

2,3,6



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2,3,9,18

2,3,9,27,54

2,3,9,27,81,162

17) 729 ml of a mixture contains milk and water in ratio 7:2. How much of the water is to be added to get a new mixture containing half milk and half water?

(i) 79 ml

(ii) 81 ml

(iii) 72 ml

(iv) 91 ml

Solution:

Milk Quantity = $(729 * (7/9))=567\text{ml}$

Water Quantity = $(729-567)= 162\text{ml}$

Let water to be added be x ml $567/(162+x) = 7/3 \quad 1701 = 1134 + 7x \quad x = 81\text{ml}$

18) If one-seventh of a number exceeds its eleventh part by 100 then the number is...

(i) 770

(ii) 1100

(iii) 1825

(iv) 1925

Solution:

Let the number be x. Then $X/7 - x/11 = 100 \quad 11x-7x = 7700 \quad x=1925.$

19) If $1.5x=0.04y$ then the value of $(y-x)/(y+x)$ is

(i) 730/77

(ii) 73/77

(iii) 7.3/77

(iv) None

Solution:

$x/y = 0.04/1.5 = 2/75$

So $(y-x)/(y+x) = (1 - x/y)/(1 + x/y) = (1 - 2/75)/(1 + 2/75) = 73/77.$



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20) If x and y are the two digits of the number 653xy such that this number is divisible by 80, then x+y is equal to:

- (i) 2
- (ii) 3
- (iii) 4
- (iv) 6

Solution:

$$80 = 2 \times 5 \times 10$$

Therefore, for 653xy to be divisible by 80, it has to be divisible by 2, 5 and 10 as well.

Since 653xy is divisible by 2 as well as by 5, so $y = 0$

Now 653x0 is divisible by 8 so 3x0 should also be divisible by 8.

Only option which satisfies the above condition is $x = 6$.



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IBM Solved Technical Questions

1) From a particular spot, Tom started to chase Jerry which had left the spot before 30 minutes. Tom ran across a highway and three streets. After travelling 1 hour Tom met Jerry at a distance of 120 meters. Find the ratio of the speed of Tom to that of Jerry.

a)X=2,Y=1 b)X=3,Y=2 c)X=5,Y=2 d)X=4,Y=3

Answer : b)X=3,Y=2

Solution :

Part :1 To find the speed of Tom

As given in the question, the total time taken by Tom = 1 hour and

The total distance = 120 meters = 0.12 km

Now, the speed of Tom = distance / time = $0.12 / 1 = 0.12\text{km/hr}$

Part :2 To find the speed of Jerry

The total time taken by Jerry = 30 minutes + 1 hour = $3/2$ hour

Distance = 0.12km

Then, the speed of Jerry = $0.12 / (3/2) = 0.08\text{km/hr}$.

Part :3 To find the ratio of the speed of Tom to that of Jerry

Based on part 1 and 2, ratio of the speed of Tom and Jerry = $0.12:0.08 = 3:2$

2. Evaluate $[(1.386 \times 0.643 + (2.921-1.535) \times 0.357) / (0.6 \times 0.015 + 0.6 \times 0.985)] \times (3 \times 2.7 + 3 \times 0.3)$

a)20.00 b)18.19 c)20.79 d)19.19

Answer : c)20.79

Solution:

The given expression can be simplified as follows;

$[(1.386 \times 0.643 + (1.386) \times 0.357) / (0.6 \times 0.015 + 0.6 \times 0.985)] \times (3 \times 2.7 + 3 \times 0.3)$

$= \{[1.386 \times (0.643 + 0.357)] / [0.6(0.015 + 0.985)]\} \times [3(2.7 + 0.3)]$

$= \{[1.386 \times 1.000] / [0.6 \times 1.000]\} \times [3 \times 3]$

$= [1.386 / 0.6] \times [3 \times 3] = 1.386 \times 3 / 0.2 = 6.93 \times 3 = 20.79$



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3. Find the greatest number that exactly divides 7667, 4603, 12263 when each of these is reduced by 7.

a) 2298 b) 1572 c) 1532 d) 2546

Answer : c) 1532

Solution:

(Actually this is a simple problem dealing with finding just HCF of the numbers after subtracting 7 from each of these numbers. Since it immediately follows the I problem, some readers could think it as complex as the first.)

the required number = h.c.f of [(4603-7),(7667-7),(12263-7)] (given that the numbers leaves 7)

= h.c.f of (4596, 7660, 12256)

= 1532.

(Next 3 questions are of interview type)

4) Can you tell advantages of RDBMS over simple custom DBMS ?

Answer :

Any data storage in any manageable structure can be called a DBMS. But, it is the responsibility of the programmer to maintain the data integrity and to take care of constraints. But on RDBMS, the system takes care of almost all of the data integrity requirements. Hence, the programmer could focus more on business logic rather than worrying about data integrity much.

5) Which is the layer of an Operating System that takes care of the system resource usage at the lowest level ?

Answer : Kernel Layer.

6) Can you tell any two advantages of stored procedures ?

Answer :



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Stored procedures can replace complex program segments requiring extensive SQL statements being executed from the code, hence they can make the application more manageable. Another advantage is that the usage of stored procedures can significantly reduce the network and bandwidth usage. This is because of the reduction in the number of requests and responses between business layer and database layer.



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Syntel Solved Aptitude Questions

1. Find the missing number in the sequence 2,5,4,7,___

Options

- a) 6 b) 4 c) 5 d) 7

Answer is : 6.

Just consider the sequence 3, 4, 5, 6, 7 and start subtracting and adding 1 to consecutive numbers which will get you the sequence in question.

2. In an alien planet, the word "lion" is coded as "mhpm". Then how the word "tiger" would be coded as?

Options

- a) uhids
b) uhhds
c) uhhfs
d) uhhfq

Answer is : uhhds.

Reason : First letter in a word would be replaced by the next adjacent letter. Second letter would be replaced by the immediately preceding letter... and so on.

3. Find the odd man out a) 123 b) 235 c) 135 d) 358

Answer is: 135.

Adding first two digits will give the third digit in all the other three options except option c).

4. Read the following statements.

"Weather is good in all northern cities of India.

Unlike northern cities, sunny weather exists in most of eastern cities of India.

Warm weather exists in all northern cities and some eastern cities of India."

Considering above statements, which of the following statements is false

- a) Warm weather is considered good.
b) All eastern cities experience bad weather



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c) Some eastern cities experience good weather

Answer : b) All eastern cities experience bad weather is false.

This is because, the second statement clearly states that warm (good) weather prevails in some eastern cities.

5. A bookseller sells a particular novel at 10% discount on the labelled price. Also he is so generous that he gives a free book for every 15 books for wholesale buyers. In this transaction his gain is 35%. Then find the ratio of Ratio of Labelled Price to the actual CP.

Answer :

Lets assume the CP of each book be 100. Hence CP of 16 books would be 1600. SP of 15 books = $1600 + (1600 * 35/100) = 2160$.

SP of each book would be $2160/15 = 144$.

If SP of each book is 90, labelled price would be 100 (since he gives at a 10% discount). Hence if SP is 144 marked price would be $144 * (100/90) = 160$.

Ratio of Labelled Price to the actual CP = $160/100 = 8/5$.

6. If a pen is being sold at 4% profit instead of 4% loss the actual profit is Rs 16. What is the actual cost price of the pen?

Answer :

Let x be the CP. $(104/100)x - (96/100)x = 16$. Solving we get $x = \text{Rs.}200$.

7. A cake seller sells one cake at a profit of 10% and sells another at a loss of 5%. Let the ratio of the CPs of the cakes is 2:3 respectively. Find his net profit or loss percentage.

Answer :

Let the CPs of the cakes be 2x and 3x (so that they are in the ration 2:3 as per the question.)

Hence net CP = 5x.

SP of first cake = $(110/100)*2x = 220x/100$ SP of second cake = $(95/100)*3x = 285x/100$

Net SP = $(220x/100) + (285x/100) = 505x/100 = 5.05x$. SP is greater than CP

and his profit is $5.05x - 5x = .05x$. His profit percentage = $(.05x/5x)\% = .01\%$.



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HP Sample Questions

1) If one-seventh of a number exceeds its eleventh part by 100 then the number is...

- (i) 770
- (ii) 1100
- (iii) 1825
- (iv) 1925

Answer: (iv) 1925

Solution : Let the number be x. Then $X/7 - x/11 = 100$ $11x - 7x = 7700$ $x = 1925$.

2) The ratio of Rita's age to her mother's age is 3:8. The difference of their ages is 35 years. The ratio of their ages after 4 years will be:

- (i) 7:12
- (ii) 5:12
- (iii) 38:43
- (iv) 42:47

Answer: (ii) 5:12

Solution:

Let their ages be 3x and 8x

$$8x - 3x = 35$$

$$x = 7$$

Their present ages are 21 and 56 years.

Ratio of their ages after 4 years are $25:60 = 5:12$

3) A tap can fill the tank in 15 minutes and another can empty it in 8 minutes. If the tank is already half full and both the taps are opened together, the tank will be:

- (i) filled in 12 min
- (iii) emptied in 12 min
- (iv) filled in 8 min
- (v) emptied in 8 min



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Answer: 8 minutes

Solution:

Rate of waste pipe being more the tank will be emptied when both taps are opened.

Net emptying work done in 1min $= (1/8 - 1/16) = 1/16$

So full tank will be emptied in 16 min

Half tank will be emptied in 8 minutes.

4) A man can row 5 kmph in still water. If the river is running at 1kmph, it takes him 75 minutes to row to a place and back. How far is the place?

(i) 3km

(ii) 2.5 km

(iii) 4 km

(iv) 5 km

Answer: 3 Km

Solution:

Speed downstream = $(5+1)$ km/hr = 6 km/hr Speed upstream = $(5-1)$ km/hr = 4 km/hr

Let the required distance be x km $x/6 + x/4 = 75/60$ $2x+3x = 15$ $x = 3$ km

5) If $\log 0.317=0.3332$ and $\log 0.318=0.3364$ then find $\log 0.319$?

(i) 0.3396

(ii) 0.3369

(iii) 0.3368

(iv) 0.3338

Answer: 0.3396

Solution: $\log 0.317=0.3332$ and $\log 0.318=0.3364$,

then $\log 0.319=\log 0.318+(\log(0.318-0.317)) = 0.3396$

6) In a hotel, rooms are numbered from 101 to 550. A room is chosen at random.



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What is the probability that room number starts with 1, 2 or 3 and ends with 4, 5 or 6?

Answer

There are total 450 rooms.

Out of which 299 room number starts with either 1, 2 or 3. (as room number 100 is not there) Now out of those 299 rooms only 90 room numbers end with 4, 5 or 6. So the probability is $90/450$ i.e. $1/5$ or 0.20.

7) Difference between Bholu's and Molu's age is 2 years and the difference between Molu's and Kolu's age is 5 years. What is the maximum possible value of the sum of the difference in their ages, taken two at a time?

Answer

The maximum possible value of the sum of the difference in their ages - taken two at a time - is 14 years.

8) How many even integers n , where, are divisible neither by seven nor by nine?

Solution:

There are 101 integers in all, of which 51 are even. From 100 to 200, there are 14 multiples of 7, of which 7 are even. There are 11 multiples of 9, of which 6 are even. But there is one integer (i.e. 126) that is a multiple of both 7 and 9 and also even. Hence the answer is $(51 - 7 - 6 + 1) = 39$

9) Four persons A, B, C and D are playing cards. Each person has one card, laid down on the table below him, which has two different colours on either side. No card has the same color on both sides. The colours visible on the table are Red, Green, Red and Blue respectively. They see the color on the reverse side and give the following comment.

A: Yellow or Green

B: Neither Blue nor Green

C: Blue or Yellow

D: Blue or Yellow

Given that out of the 4 people 2 always lie find out the colours on the cards each



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person.

ANSWER:

Try all possible combinations. Keep in mind two things. THE combination obtained should satisfy the conditions

1. Two are lying and two are telling the truth

2. Neither two cards are similar nor are two sides of a card are of same color

A YELLOW

B YELLOW

C GREEN

D RED

10) Grass in lawn grows equally thick and in a uniform rate. It takes 40 days for 40 cows and 60 days for 30 cows to eat the whole of the grass. How many days does it take for 20 cows to do the same?

ANSWER:

g - grass at the beginning

r - rate at which grass grows, per day

y - rate at which one cow eats grass, per day

n - no of cows to eat the grass in 96 days

$$g + 40*r = 40 * 40 * y \text{----- 1}$$

$$g + 60*r = 30 * 60 * y \text{----- 2}$$

$$g + n*r = 20 * n * y \text{----- 3}$$

from 1 and 2

$$r=10y \quad g=120r$$

from 3

$$nr=120r$$

Solving, $n = 120$



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11) Lucia is a wonderful grandmother. Her age is between 50 and 70. Each of her sons has as many sons as they have brothers. Their combined number gives Lucia's age.

What is the age?

ANSWER

Let the no. of Lucia's sons = n

No. of brothers for each son = $n-1$

No. of sons for each of Lucia's son = $n-1$

Lucia's age = $n-1 * n-1$

= a perfect square between 50 and 70

= 64

12) Gold is 19 times as heavy as water and copper is 9 times as heavy as water. In what ratio should these be mixed to get an alloy 15 times as heavy as water?

(i) 1:1

(ii) 2:3

(iii) 1:2

(iv) 3:2

Solution:

Let 1gm of gold be mixed with x gm of copper to give $(1+x)$ gm of the alloy.

$1G=19W$, $1C = 9W$ and alloy = $15W$ $1gm \text{ gold} + x$

13) What is not a part of OS?

a)swapper

b)compiler

c)device driver

d)file system

Answer is compiler

14) Which is the protocol used by PING?

a)ICMP



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b)HTTP

c)SMTP

d)RTSP

Answer is ICMP



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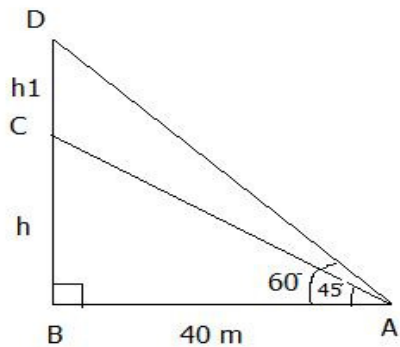
Honeywell Sample Aptitude Questions

1) A lamp post stands vertically on the top of a building. From a point 40m distance from the bottom of the building on the ground, the angle of elevation of the bottom and top of the lamp post are 45 degree and 60 degree respectively. Then the height of the vertical lamp post will be

- a) 29.28m b) 39.38m c) 49.48m d) 19.18m

Answer : a) 29.28m

Solution :



Let BC = height of the building = h m

CD = height of the lamp post = h1 m

And AB = 40 m

To find the height of the lamp(CD), first we have to find the height of the building(BC)

On right-angled triangle ABC, $\tan(45^\circ) = \frac{BC}{AB} = \frac{h}{40}$.

Since $\tan(45^\circ) = 1$ then $\frac{h}{40} = 1 \implies h = 40$ m.

Now, on right-angled triangle ABD, $\tan(60^\circ) = \frac{BD}{AB}$ or $\sqrt{3} = \frac{BD}{40}$

$BD = 40 \times \sqrt{3} = 40 \times 1.732 = 69.28$ m

Then, $h1 = CD = BD - BC = 69.28 - 40 = 29.28$ m

Hence the height of the lamp post is 29.28 m.

2) Solve the inequality $6^{(6x-2)} < 1/36$

- a) $x < 0$ b) $x > 0$ c) $x = 1/3$ d) $x = 6$



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Answer : a) $x < 0$

Solution :

Given inequality is $6^{(6x-2)} < 1/36$

Multiply by 36 on both sides, we get

$$36[6^{(6x-2)}] < 1$$

Make each term as the power of 6

$$(6^2)[6^{(6x-2)}] < 6^0$$

Now, using the formula $(a^x)(a^y) = a^{(x+y)}$

$$6^{(6x-2+2)} < 6^0$$

$$6^{(6x)} < 6^0$$

Cancelling the base 6 on both sides,

$$6x < 0$$

$$x < 0$$

Hence the answer is option a

3) A railway half ticket(for kids below 5 years) costs Rs. 150 and full ticket(for above 5 years) costs Rs. 250. The daily report says that for a particular day, 5000 passengers have travelled and the total collection is Rs.10,50,000. How many kids(below 5 years) have travelled on that day?

a)1000 b)2000 c)2500 d)3500

Answer : b)2000

Solution:

Let 's' be the number of kids travelled on that day and 'b' be the number of passengers(above 5 years) travelled on that day.

Therefore, $s + b = 5000$... eqn (1)

Each half ticket's cost is Rs.150 and

Each full ticket's cost is Rs.250.

Total collection of amount = $150s + 250b = 10,50,000$

Or $150s + 250b = 10,50,000$... eqn (2)



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Multiplying equation (1) by 150, we get $150s + 150b = 7,50,000$... eqn (3)

Subtracting eqn (3) from eqn (2), we get $100b = 3,00,000$

Or $b = 3000$

We know that $s + b = 5000$

So, $s = 5000 - b = 5000 - 3000 = 2000$.

Hence, 2000 kids travelled on that particular day.

(Next 3 questions are of interview type)

4) The code for creating stack in DOS is _____ .

a) STACKS = (number),(size)

b) STACKS = number

c) STACKS = (size),(number)

d) STACKS = size

Answer : a) STACKS = (number),(size)

5) Unix Operating System is an example of _____ .

a) Macro or Monolithic Kernel

b) Micro Kernel

c) Hybrid Kernel

d) None of these

Answer : a) Macro or Monolithic Kernel

6) In Linux, the data structure of file system is called as _____ .

a) inode

b) struct inode

c) vnode

d) Inode

Answer : b) struct inode



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General Aptitude & Verbal Questions

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1) A starts a project of duration of 15 months with capital Rs.60000. 3 months after the start, B joins with A and invests one fourth of that of A. After another 6 months, C joins with capital Rs. 90000. At the end of the year, A withdrew the partnership leaving the firm to be run by B and C. What will be the shares of B and C if total profit is Rs.50000?

- a)Rs.25000, Rs.6250 b)Rs.6250,Rs.18750
c)Rs.18750, Rs.6250 d)Rs.25000,Rs.18750

Answer : b)Rs.6250,Rs.18750.

Solution:

A works since start of the project but withdrew 3 months before completion.

Therefore, he works for $15 - 3 = 12$ months

B works 3 months after start of the project and continues till end. Therefore, his duration of partnership = $15 - 3 = 12$ months

C joins 9 months after A started business (6 months after B who was already late by 3 months) and works till completion. Therefore, his duration = $15 - 9 = 6$

The ratio of their profits = $(60000 \times 12) : (1/4 \times 60000 \times 12) : (90000 \times 6)$
=720000:180000:540000

=4:1:3

Now let us find the respective share of profits out of total profit Rs.50,000

A's share= $4/8 \times 50000 = 25000$

B's share = $1/8 \times 50000 = 6250$

C's share = $3/8 \times 50000 = 18750$.

Based on above results, our answer is option b.



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2) Arun says that his weight is in the range of 58 kg to 64 kg. His brother weight is 62 kg and Arun's weight is not more than that of his brother's. Also, as a matter of fact, Arun's weight is in between 60 kg and 65 kg. If all the above statements are true, then find the average weight of Arun.

Answer : 60.5 kg

Solution:

Let the weight of Arun be x.

In Arun's view, $58 < x < 64$...(1)

Based on his brother's estimation we have $x \leq 62$...(2)

also given that $60 < x < 65$...(3)

Combining, (1),(2) and (3) we have $58 < 60 < x \leq 62 < 64 < 65$

Simplifying the above inequality, we get, $58 < x \leq 62$

Probable values for x are 59,60,61 and 62

Average of the probables are $(59+60+61+62)/4 = 242/4 = 60.5$

3) Before 5 years, the sum of the ages of Ragu and Suresh was 80 years. The sum will be 104 years after 7 years. What could be possible combinations of ages from among the options.

a) 50,40 b) 25,65 c) none of these d) both a & b

Answer : d) both a & b

Solution:

Let the age of Ragu be x and that of Suresh be y

Before 5 years, the sum of ages was 80, i.e $x - 5 + y - 5 = 80$

Or $x + y = 90$...(1)

After 7 years, the sum will be 104, i.e $x + 7 + y + 7 = 104$

Or

i.e. $x + y = 90$...(2)

Equations 1 and 2 indicate that the sum of the ages has to be 90.



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Both option a and option b have listed ages whose sum is 90. Hence there are two possible solutions from among options. Hence option d) is correct answer.

4) During Summer holidays, Deepa and Ramya visited their uncle who was residing in a village. It was a different experience in the village for these two girls. Aunt engaged them teaching how to play games with marbles. In one particular game both Ramya and Deepa had the same number of marbles when they started playing. After sometime Deepa gained 50 marbles. After some time Deepa lost $\frac{3}{5}$ th of what she had. At the same instance Ramya had 3 times as many marbles as Deepa had. Can you find out the number of marbles the girls had at the start ?

(a) 100 (b) 200 (c) 175 (d) 140

Answer : b) 200

Solution:

It is stated that both Deepa and Ramya had the same number of marbles to start with. Let us assume both of them had x number of marbles when the game began. After sometime Deepa gained 50 marbles, which means she had $x+50$ marbles and Ramya had $x-50$ marbles.

Later, Deepa lost $\frac{3}{5}$ th marbles. Therefore, Deepa had $(x + 50) - (\frac{3}{5})(x + 50) = \frac{2}{5}(x+50)$

These lost $\frac{3}{5}$ th of marbles by Deepa would have been gained by Ramya

These $\frac{2}{5}(x+50)$ marbles would have been gained by Ramya. Therefore, she would have had $x - 50 + \frac{3}{5}(x + 50)$. At that particular instance, Ramya's marble count was thrice that of Deepa.

$$\text{i.e } 3 * \frac{2}{5}(x + 50) = x - 50 + \frac{3}{5}(x + 50)$$

$$\frac{6}{5}(x + 50) = \frac{8}{5}x - 20 \text{ or}$$

$$6x+300=8x-100 \text{ (By multiplying both sides by 5)}$$



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$$2x = 400 \text{ or } x = 200$$

The number of marbles Deepa and Ramya had initially = 200.

5) Roushan was a B.E student pursuing studies in the city of Vizag. During summer holidays he visited his village. In the courtyard of his house, there are many hens and goats. Roushan asked his sister as to how many hens are there in the courtyard. His sister who is a village girl gave her reply like this : If you count all the heads you will get 300. But if you count the legs you will get 700. Can you help Roushan in calculating the number of hens.

- (a) 200 (b) 250 (c) 600 (d) 400

Answer : b) 250

Solution:

Let us assume that x number of hens and y number of goats are there in the courtyard.

$x + y = 300$, -----(1) since the total head count is given as 300.

Its given, there are totally 700 legs when counted. We know the hens have two legs and the goats have 4 legs. Therefore

$2x + 4y = 700$ -----(2)

(1) x 2 will give, $2x + 2y = 600$ -----(3)

(2) - (3) will give you, $2y = 100$ and $y = 50$.

Substituting in equation (1) you get x value as 250

6) Green and blue coloured toys are 149 in number in a box. Two green toys are removed from the lot and now there are twice as many green ones as blue ones. How many green coloured toys are there now?

- a) 76 b) 86 c) 90 d) 98



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Answer : d) 98

Solution:

Let x and y be the original number of green and blue toys respectively. Originally there were 149 toys. Hence,

$$x + y = 149 \text{ -----(1)}$$

After two green toys were removed, the number of green toys becomes twice that of the blue toys.

$$x-2 = 2 y \text{ -----(2)}$$

Solving eq 1 and eq 2 we get

$$3 y = 149-2=147$$

$$y = 49$$

The current number of green toys (after removal of two) is twice as that of blue ones. So the green toys are 98 in number.

7) Ganesh Ram starts in his luxurious Honda City for a week end holiday trip to a near by hill station. The road was in a poor condition and the car tire got punctured in the mid way. Before he could reach out for help he wanted to measure how long he can sustain the repair. The first puncture by itself would make the tire flat in 9 minutes. The second puncture by itself would make the tire flat in 18 minutes. How long will it take for both the punctures together to make the tire flat, if Ganesh Ram assumes that the air leaks at a constant rate?

(a) 3 3/5 minutes

(b) 13 1/2 minutes

(c) 6 minutes

(d) 27 minutes

Answer : c) 6 minutes

Solution:

This is a time and work problem.

In each minute, the first puncture will leak 1/9th of the air and the second



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puncture in one minute will leak $\frac{1}{18}$ th of the air. When both are punctured together effective leak per minute will be $\frac{1}{9} + \frac{1}{18} = \frac{3}{18}$ or $\frac{1}{6}$ th of the air. So, in 6 minutes time the entire tire will be flat. Hence, correct answer is option (c)

8) The district collectorate at Thanjavoor had a flag post with the tri color flag flying. The 18 m high flag post casts a shadow of length 42m. Collector's residential quarters casts a shadow of 28m under similar conditions. Calculate the height of the building?

- (a) 14m (b) 15m (c) 12m (d) 16.5m

Answer : c) 12m

Solution:

Height of the flag post = 18m

Length of the shadow of flag post = 42m

Let the height of Collector's residential quarters be x m

Length of the shadow of Collector's residential quarters = 28m

Under similar conditions, we can safely assume that the shadows are proportional to the heights.

Therefore we can write, Length of the shadow of the flag post / Height of the flag post = Length of the shadow of Collector's residential quarters / Height of Collector's residential quarters

Substituting length and height values in the above equation we get

$$42/18 = 28/x$$

$$x = 28 \times 18/42 = 4 \times 18/6 = 4 \times 3 = 12\text{m}$$

Therefore our answer is 12 m.



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9) Ranjit Kumar purchased a new watch in Burma Bazaar. Sooner he found that the uniformly gaining watch starts with a lag of 2 minutes at noon on a particular Monday and it is 4 minutes 48 seconds fast at 2PM on the following Monday.

Please guide Ranjit Kumar when the clock would show the true time ?

(a) 2PM on Tuesday

(b) 2PM on Wednesday

(c) 3PM on Thursday

(d) 1PM on Friday

Answer : b) 2PM on Wednesday

Solution:

12 noon Monday to 2PM next Monday is 7 days and 2 hours. i.e. $7 \times 24 + 2 = 170$ hours.

The new watch purchased by Ranjit Kumar was 2 minutes slow and by 170 hours it was fast by 4 minutes 48 seconds. (4 minutes 48 seconds can be written as $4 \frac{48}{60}$ or $4 \frac{4}{5}$ minutes.)

Therefore the total gain in 170 hours = 2 minutes + $4 \frac{4}{5}$ minutes = $\frac{34}{5}$ minutes = 408 seconds

Gain per hour = $408/170 = 2.4$ seconds.

It is given that the watch was slow by 2 minutes (120 seconds) initially. Therefore the time at which the watch will make up for the lost 2 minutes by gaining 2 minutes or 120 seconds will be our answer.

2.4 seconds are gained in 1 hour.

120 seconds will be gained in $1/2.4 \times 120 = 50$ hours.

So the watch will show right time in 50 hours from Monday 12.00 noon i.e. at Wednesday 2.00 PM.

10) Dilip is a book worm and his wife Rama Dilip is also a voracious reader. Dilip reads at an average rate of 40 pages per hour, while Rama Dilip reads at an



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average rate of 50 pages per hour. Dilip starts reading a novel at 4.30 PM and Rama Dilip begins reading an identical copy of the same book at 5.20 PM. At 6.00 PM suddenly a family friend arrived and both husband and wife had to spend 30 minutes with the guest. Thereafter, they started reading again. At what time will both husband and wife will be reading the same page?

- (a) 10.00PM (b) 9.30 pm (c) 9.10 PM
(d) 8.20Pm (e) 7.30 PM

Answer : c) 9.10 PM

Solution:

We have to find out when Rama Dilip will catch up with Dilip. Dilip reads at the rate of 40 pages per hour and Rama Dilip reads at the rate of 50 pages per hour. Dilip starts 50 minutes ahead of his wife. Since 50 minutes is $\frac{5}{6}$ of an hour, by the time Rama Dilip starts reading at 5.20 PM, Dilip has already read $\frac{5}{6} \times 40 = \frac{200}{6}$ pages. Please note that Rama Dilip is faster by 10 pages per hour as compared to her husband.

Since Dilip started with $\frac{200}{6}$ pages ahead at 5.20 PM to catch up with Dilip it should take Rama Dilip $\frac{200}{6} \text{ pages} / 10 \text{ pages per hour}$. ie $\frac{200}{60}$ hours or 3 hours 20 minutes. And of course the common time spent by both husband and wife chatting with guest is 30 minutes. So to catch up with Dilip, Rama Dilip requires 3 hours 20 minutes + 30 minutes or 3 hours 50 minutes. Rama Dilip and Dilip will be reading the same page at 5.20 PM + 3 hours 50 minutes ie by 9.10 PM.

11) All Win Recreation Club is a famous club in the city of Vijayawada. A general body meeting of the club was convened to discuss the expenses that was incurred during an inter club tournament. The total expenses were for Rs.5000/-.



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All the club members agreed in the first instance to share the expenses among themselves. However, five members of the Club chose to resign, leaving the remaining members to pay an extra Rs 50 each. What is the original membership of the club?

- (a) 33 (b) 35 (c) 28 (d) 25

Answer : d) 25

Solution:

Let us assume there are originally T members in the club.

Total expense as per plan = Rs. 5000

This means everyone has to pay Rs. $5000/T$

However 5 members resigned. This means the budget was short by $5 \times 5000/T$... (1)

Number of remaining members = $T - 5$

This shortcoming was balanced by the remaining members as they paid an extra of Rs. 50 each.

Total extra amount paid = $50 \times (T - 5)$... (2)

Since total shortcoming is balanced by extra amount paid, values of 1 and 2 should be equal

Therefore, $5 \times 5000/T = 50 \times (T - 5)$

$25000/T = 50 (T - 5)$

Multiplying both sides by T, we get

$25000 = 50T^2 - 250T$ or

$50T^2 - 250T - 25000 = 0$

Factorising you get,

$(T - 25) (T + 20) = 0$



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$T = 25$ or $T = -20$

Since total members cannot be negative, $T = 25$

12) Find the odd option among : astronomy, science, telescope, astrology

Answer : astrology

'Astronomy' refers to a 'Science' where celestial space and bodies are studied using devices such as 'Telescope'. 'Astrology' is an entirely different concept

13) Find the odd option among:

a) Gaur b) blackbuck c) Sambar d) Swallow

Answer : d) Swallow

Reason :

First three options namely Gaur, Blackbuck and Sambar refer to animals while Swallow is a bird. Hence d is the answer.

14) ____ of Indian painters and musicians who lived during medieval period is to be wondered about and appreciated.

- a. Artistry
- b. Works
- c. Sculptures
- d. Innovation

Answer : a. Artistry

Artistry refers to work in the field of art. Though option b Works fits the blank, it may not as good choice as Artistry. Sculptures and Innovation do not fit the blank either. Hence option a is the right answer.

15) Which of the following is an appropriate synonym for the word Debauch?

Options

a) Demoralize



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b) *Encourage*

c) *Cultivate*

Answer : a) Demoralize

16) Find the synonym of Decreed?

Options

a) *made up one's mind*

b) *disagree*

c) *decrease in quantity*

Answer : a) made up one's mind

17) What is an appropriate synonym for Bifid?

Options

a) Divided

b) Divided in two

c) Timid

Answer : a) Divided

18) Find the antonym for gaurish.

Options

a) Cheap

b) Flashy

c) Costly

Answer : a) Cheap

19) Choose an appropriate antonym for the word deliberate.

Options

a) unintended

b) targeted

c) focussed

Answer : a) Unintended



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20) Choose the antonym for Sorrow.

Options

a) Joy

b) empathy

c) sympathy

Answer : a) Joy



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Section II – Jobs Help

1) How To Write A Great Resume?

Do you know that 90% of the resumes carry 'Computer Networks' and 'Database Concepts' as areas of interest. You would agree that there is no good reason to have these subjects as areas of interest other than being relatively easier topics to answer. This is ideally how your resume SHOULD NOT LOOK LIKE!

Why Resumes Are So Important?

Resumes are always great way to leave a first impression to your interviewer before even answering his questions. But most youngsters fail to make a resume that can stand apart from the others.

Why Resumes Should Stand Apart?

Simple answer to this question is the increasing competition and emerging talents. Year after year the competition is growing steadily due to the increasing number of fresh graduates with not a proportional increase in vacancies. Hence it is extremely important that you give your best while writing resumes.

How Should You Write Your Resume?

Actually, the technique is simple. Keep the resume short and straightforward. Don't use the same areas of interest as 99 others will use. Instead think of subjects which you genuinely liked and include those. Don't include the common 'Class Leader' achievement in your resumes. I used to conduct interviews and used to wonder how many class leaders are posting resumes to my company :).

More importantly you need to copy the declaration like (first two lines of declaration



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which many resume formats contain) from your friend's resume. It is better not to include one.

How Should You Order The Sections?

It is always good to start with high school and college marks. Following that you should be having your areas of interest followed by skills and achievements.

This is all about writing great resumes. Don't forget to leave your comments in the 'share your thoughts' section at the end of this page.



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2) Usefulness Of SAP Training?

If you are not already aware, SAP is among the world's leading business management software used by many large and medium sized companies worldwide. SAP is a huge business suite which requires trained professionals to manage and operate. With more and more businesses automating their business with SAP, there is a growing need for graduates trained in SAP.

What is the best time to undergo training?

There is no specific best time to learn SAP. In fact, SAP training is being provided by many leading institutes like NIIT in India. To add to the benefits, the courses are not only offline, but online courses are available as well.

If you are a graduate or postgraduate or an experienced person looking to switch jobs, SAP can help you a lot to go to the next level in your career.

Is there any specific qualification to undergo training?

Actually, any graduate degree is considered for enrolment (registration) for SAP courses. Training programs are designated in a way that the course covers everything from basics.

How to get started?

Wherever you may be, whatever may be your qualification, you can get started immediately by enrolling to any of reputed SAP training centres' offering certification in SAP.

What about future demand?



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Whatever may be the market condition, recession or whatsoever, business are not going to stop installing SAP related software to automate their businesses. This fact is an assurance that SAP trained graduates will be required in more numbers in future. Also the demand would steadily raise.



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3) Usefulness Of J2EE Training?

Are you a fresher aspiring for job with any leading software company? Else are you an experienced person looking to switch company? You might be missing something if you have not considered undergoing J2EE training either offline or online.

Why J2EE is important?

Two most commonly used web based technologies across companies are DotNet and J2EE. Among these, DotNet is a proprietary technology requiring investment from company on softwares and rights. However J2EE is an open source framework which is equally good as DotNet and don't cost much to the company. This fact is being exploited for creating of new programs in J2EE by companies. Several large companies have started migrating their existing applications to J2EE as well. These factors make J2EE a very important one.

Why Web Technologies are significant?

This is an era where companies have realized the efficiency and cost effectiveness of implementing client server architecture to their existing traditional applications. Hence companies would prefer candidates with certification in at least any one web technology.

Where You Can Get Trained?

There are several good institutes like NIIT, CSC etc which offer certification training in J2EE. A certificate with top institutes like the ones mentioned will be considered seriously by the software companies. This reduces their burden to train you in web technologies. This keeps you always on priority when compared to candidates without certification.



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4) Use Search Engines And Bookmarks To Search Jobs Quickly

Recently I got a mail from one of CareersValley users stating that she is unable to find information on TCS recruitment drives..

Staying informed of the latest job openings could be a major concern for many youngsters like You.

Which Are The Best Resources To Stay Informed?

Reading through newspapers is a cumbersome process and chances are that you are going to miss several openings. Hence undoubtedly best resources to stay informed are

- a) Google
- b) Trusted Newsletters (Just like the one you get from CareersValley)
- c) Company Websites (Not applicable to medium and small companies)

How To Use Google Smartly For Job Search?

Most of you would be using Google for job search. But many fail to learn some smart and simple techniques to do a more efficient search. Let me give you examples to search for TCS openings. However this applies to any other company as well.

If you would like to search for TCS jobs, be specific on the year and category. For example let me consider you are searching for 2012 openings under freshers category. Now your search query should be specific and enclosed within double quotes. (Double quote returns exact matches)



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"tcs jobs for freshers 2012" could be a very good query. You could just copy this query and replace the company name, category and year to find jobs in the company you are looking for. If you are experienced use "tcs jobs for experienced 2012"

If you trust a particular site and would like to search for job postings on that particular site (In the following example I am using careersvalley.com) your query would look like site:careersvalley.com "tcs placement papers". In the above query I am searching for exact matches for infosys placement papers from careersvalley.com.

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Nobody has enough time to go through each and every individual job posting. There is a simple solution to this problem.

Whenever you find a job posting or job site interesting at a glance, don't forget to bookmark the site by pressing 'Ctrl + D'. You could continue this process for as many websites and postings as you can. Then you could choose between the bookmarks which you think worthy of reading.

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