2026 INFOSYS TEST-1

Test Summary

* No. of Sections: 3
* No. of Questions: 42
* Total Duration: 90 min

Section 1 - VERBAL

Section Summary

* No. of Questions: 20
* Duration: 20 min

Additional Instructions:

None

Q1.

In the question below is given a statement followed by several assumptions. An assumption is something supposed or taken for granted. You have to consider the statement along with the assumptions and then decide as to which of the assumptions is implicit in the statement.

Statement : "It is desirable to keep common medicines with you when you go on a long journey". A advises B.

Assumptions :

I.  B's health is poor.

II. A is a medical representative.

III. One's health is likely to get affected by the changes in weather, water etc., while on a long journey.

Only I and III are implicit

Only III is implicit

Only I and II are implicit

Only I is implicit

Q2.

A number of sentences are given below which, when properly sequenced, form a coherent paragraph. Each sentence is labeled with a letter. Choose the most logical order of sentences from among the four given choices to construct a coherent paragraph.

P) As a child, you may have paid little attention to your father‘s financial hardships.

Q) You may also be unaware about how your father intends to sustain himself through his non-working years.

R) These are some of the conversations you need to have with your father to ascertain his financial security needed to lead his golden years with dignity.

S) Does he have a pension plan? Has he invested adequately? Does he have health coverage?

PQSR

PSQR

SQRP

SRQP

Q3.

The sentence given below has four parts, indicated by (A), (B), (C) and (D). Read the sentence to find out whether there is any error and mark the part containing the error as the answer. If the sentence has no error, indicate the part (E), which stands for ‘No error’. (Ignore the error of punctuation, if any)

(A) The Mysore Goods Express train / (B) laden with coal/ (C) got crashed in / (D) the Kannur Junction. / (E) No error.

A

B

C

D

E

Q4.

**choose the word opposite in meaning to the given word**

**Mutinous**

Abstruse

Esoteric

Recondite

Compliant

Q5.

Below in the question are given two statements (I) and (II). These statements may be either independent causes or may be effects of independent causes. One of these statements may be the effect of the other statement.

Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.

**Statements:**

I. All domestic airlines increased the fares in all sectors with immediate effect.

II. Railways increased the fare of all its classes with immediate effect.

If statement I is the cause and statement II is its effect

If statement II is the cause and statement I is its effect

If both the statements I and II are independent causes

If both the statements I and II are effects of independent causes

If both the statements I and II are effects of some common cause

Q6.

**Read the statement and answer the question that follows.**

When India pointed out the Mc Mahon line, the Chinese response was that it did not recognize lines drawn by colonial powers.

Which of the following is a conclusion which can be drawn from the above statement?

The line was drawn by a Britisher by name Mc Mohan.

Indians recognized the border drawn by colonial powers.

The Mc Mohan line is not to the advantage of these Chinese.

The Indians are not in good terms with the colonial powers.

Q7.

In the sentence, a part of the sentence or the whole sentence is underlined. Beneath each sentence, four different ways of phrasing the underlined part are indicated. Choose the best alternative from among the four.

A huge flying reptile that died out with the dinosaurs some 65 million years ago the Quetzalcoatlus had a wingspan of 36 feet, believed to be the largest flying creature the world has ever seen.

(A) and that is believed to be

(B) and it is believed to have been

(C) which was, it is believed

(D) which is believed to be

Q8.

The sentence given below has four parts, indicated by (A), (B), (C) and (D). Read the sentence to find out whether there is any error and mark the part containing the error as the answer. If the sentence has no error, indicate the part (E), which stands for ‘No error’. (Ignore the error of punctuation, if any)

(A) The Tarot is/ (B) the ancient meditative discipline by which/ (C) one can gain access/ (D) to higher levels of consciousness.

A

B

C

D

E

Q9.

Select the option that is most nearly OPPOSITE in meaning to the given word. :

INGENUITY (OPPOSITE)

skillfulness

cunning

inventive

dullness

Q10.

**Identify the best way of writing the sentence in the context of the correct usage of standard written English. While doing so, you have to ensure that the message being conveyed remains the same in all cases.**

In order to reduce light-duty vehicle greenhouse gas emissions, a company can use either low-carbon and renewal power or make land use changes; however, neither of these strategies are by themselves sufficient to achieve success and must be used together to reduce emissions.

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In order to reduce light-duty vehicle greenhouse gas emissions, a company can use either low-carbon and renewal power or land use changes have to be made; however, neither of these strategies is by themselves sufficient to achieve success and must be used together to reduce emissions.

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Q11.

**The sentence given below has four parts, indicated by (A), (B), (C) and (D). Read the sentence to find out whether there is any error and mark the part containing the error as the answer. If the sentence has no error, indicate the part (E), which stands for ‘No error’. (Ignore the error of punctuation, if any)**

The Security guard concluded that (A) / either Prashanth (B) /or Mukesh were (C) / responsible for the yesterday's theft (D) / No error (E).

(A)

(B)

(C)

(D)

(E)

Q12.

The sentences given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labeled with a letter. Choose the most logical order of sentences from among the given choices to construct a coherent paragraph.

A. Whenever the market price is set above or below the equilibrium price, either a market surplus or a market shortage will emerge

B. Only at the equilibrium price will no further adjustments be required

C. We can count on market participants to find this equilibrium

D. To overcome a surplus or shortage, buyers and sellers will change their behavior-that is, the prices charged or paid and the quantities demanded or sold

E. The equilibrium price is the only price at which the amount consumers are willing to buy equals the amount producers are willing to sell

ACBDE

ADBEC

DCBEA

CBADE

Q13.

Select most suitable synonym

scourge

anathema

boon

benediction

curse

Q14.

In the following questions choose the word which is the exact OPPOSITE (an antonym) of the given words.

BELITTLE

exaggerate

adore

criticize

flatter

Q15.

Pick out the best alternative for the underlined part of the sentence.

But nothing is more dissolving of tradition but the permanent revolution of the market forces.

but the permanent revolution of the market forces.

but the permanent revolution in the market forces.

than the permanent revolution of the market forces.

than the permanent revolution in the market forces.

Q16.

The sentence given below has four parts, indicated by (a), (b) and (c). Read the sentence to find out whether there is an error. If the sentence has no error, indicate the part (d), which stands for ‘No error’. (Ignore the error of punctuation, if any)

In a city like this (a) / where the population is the huge(b) / I did not know hardly (c) / anyone (d).

(a)

(b)

(c)

(d)

Q17.

Select most suitable synonym

reclusive

abstemious

indulgent

frugal

cloistered

Q18.

Spot the grammatical error in the given sentence.

(a) Due to the press strike/ (b) no news have been received/ (c) of the political development in Delhi / (d) till date. / (e) No error.

a

b

c

d

e

Q19.

Which of the phrases (1), (2), (3) and (4) given below each sentence should replace the underlined phrase to make the sentence grammatically meaningful and correct?

This man has been arrested under the charge of stealing.

under charge of stealing

on a charge of stealing

with a charge of stealing

in the charge of stealing

Q20.

Find out the antonym for the given word :

OSTENTATIOUS:

showy

radical

modest

intrinsic

Section 2 - Q&R

Section Summary

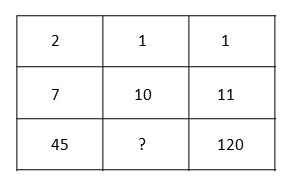
* No. of Questions: 15
* Duration: 20 min

Additional Instructions:

None

Q1.

Find the missing number in the grid given alongside.



125

99

100

150

Q2.

Two types of tea are mixed in the ratio 3:5 to make first quality and in the ratio 2:3 to make second quality. How many kilograms of first quality has to be mixed with 10 kg of the second quality so that the third quality having the two varieties in the ratio of 8:11 may be produced?

5 kg

10 kg

8 kg

None of these

Q3.

Walking 3/5th of his usual speed, Armstrong reached his destination 12 minutes late. Find the time taken on this occasion?

60

70

80

30

Q4.

4:5 is the age ratio of Sachin and Anjali. If 3 years ago, age ratio was 5:7 between them, then how old is Anjali ?

16 years

10 years

6 years

12 years

Q5.

If a refrigerator is sold for Rs.40000, the retailer incurs a loss of 20%. At what price must he sell the refrigerator in order to gain 20%?

Rs.60000

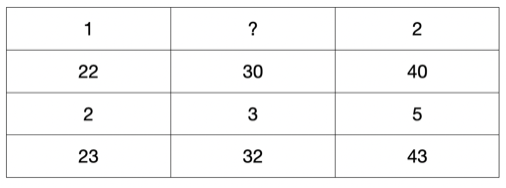
Rs.55000

Rs.65000

Rs.50000

Q6.

Find the missing number in the grid given alongside.



1

2

3

4

Q7.

Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the questions. Read both the statements and give an answer.

In the UEFA European Championship football match, the half-time, Real Madrid was trailing by three goals. Did it win the match?

I: In the second-half Real Madrid scored four goals.

II: The opponent Chelsea scored four goals in the match.

If the question can be answered by using the statement A alone but not by using the statement B alone.

If the question can be answered by using the statement B alone but not by using the statement A alone.

If the question can be answered by using either of the statements alone.

If the question can be answered by using both the statements together but not by either of the statements alone

If the question cannot be answered on the basis of the two statements.

Q8.

In each of the questions below are given three statements, followed by conclusions: I, II, III, IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements: Some sheep are bags. All bags are salts. Some salts are yolks.

Conclusion:

I. Some salts are bags.

II. Some yolks are bags.

III. Some yolks are sheep.

IV. Some salts are sheep.

All follow

Only I and IV follow

Only III follows

Only IV follows

Q9.

A and B together invested Rs.12000 in a business. At the end of the year, out of a total profit of Rs.1800, A's share was Rs.750. What was the investment of A?

6200

5000

7000

6000

Q10.

Which of the following can be a number divisible by 24?

43215604

2561284

1362480

None of these

Q11.

A,B and C invested their capital in ratio 2:3:4, at end of the business they received the profit in the ratio 5:6:7. Find the ratio of time period for which they contributed their capitals.

1:4:8

10:8:7

4:2:1

3:6:2

Q12.

Abi can produce 1,000 pens in 4 hours, Brindha can produce the same number of pens in 5 hours while Chetan can produce them in 6 hours. All the three started at 9 a.m. While Abi finishes the work at 10 am and the remaining two complete the work. Approximately at what time will the work be finished?

11:00 am

12:30 pm

12 noon

1 pm

Q13.

**Statements :**

U ≥ X = Y, Y ≤ Z ≤ S, T = W > Z

**Conclusions:**

I. T ≤ U

II. S > U

if only conclusion I follows

if only conclusion II follows

 if either conclusion I or conclusion II follows

if neither conclusion I nor conclusion II follows

if both conclusions I and II follows

Q14.

The question below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the questions. Read both the statements and give an answer.

How much did it cost the ITC Corporation to insure its factory from fire in 2018?

(A) It cost Rs.10,000 for fire insurance in 2017.

(B) The total amount the corporation spent on fire insurance in 2016, 2017 and 2018 was Rs.36,000.

if the question can be answered by one of the statements alone, but cannot be answered by using the other statement alone.

if the question can be answered by using either statement alone.

if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.

 if the question cannot be answered even by using both statements together.

Q15.

A three sided polygon has an interior angle in a ratio of 3 : 6 : 9, what is the value of the smallest angle in it ?

30 degree

50 degree

10 degree

60 degree

Section 3 - TECHNICAL

Section Summary

* No. of Questions: 7
* Duration: 50 min

Additional Instructions:

None

Q1.

What will be the output of the following pseudocode for a=1, b=4?

Integer funn(Integer a, Integer b)

if (2>a)

return funn(a+1,a+2) + funn(a+3,a+4)

End if

return a+

8

5

13

20

Q2.

What will be the output of the following pseudocode:

Integer a,b,c,d

Set a=12, b=3,c=0,d=0

while (2\*a >=5)

while(b<=5)

b=b+2

d=d+1

end while

a=a-5

c=c+1

End while

Print c,

3 2

2 2

Infinite loop

1 2

Q3.

What will be the output of the following pseudocode:

Note:-

&& : Logical AND - The logical AND (&&) operator returns the Boolean value True (or 1) if both operands are True and return False (or 0) otherwise.

||: Logical OR - The logical OR (||) returns the Boolean value True (or 1) if either or both operands is True and return False (or 0) otherwise.

A screenshot of a computer

AI-generated content may be incorrect.

1 2 journey

1 2 3 4 5

1 2

1 2 3 4 5 journey

Q4.

What will be the output of the following pseudocode:

A screenshot of a computer

AI-generated content may be incorrect.

8

17

26

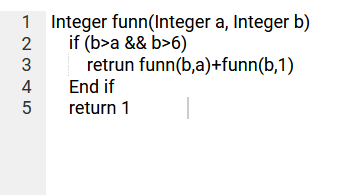
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Q5.

What will be the output of the following pseudocode for a=2, b=7?

Note:- && : Logical AND - The logical AND (&&) operator returns the Boolean value true (or 1) if both operands are true and return false (or 0) otherwise.

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.



16

3

2

-2

Q6.

A personal identification number (PIN) is a numeric or alphanumeric password or code used in the process of authenticating or identifying a user. The PIN numbers of the customers of FB Bank are encoded in an array. Your task is to decode the array and generate the six-digit PIN number based on the following rules:

1. Find the cumulative sum of all the digits until you get a single digit.

2. Replace all the odd numbers with their respective alphabets in lowercase i.e.

1=a, 2=b...9=i...

**Explanation:**

pinArray = { 1, 22, 123, 4242, 45, 56 }

the cumulative sums are

= { 1, 4, 6, 3, 9, 2 }

= 146392

After replacing all the odd numbers with alphabets

Output = a46ci2

Input Format

* The first line contains the array elements.
* The size of the array is always 6.
* Each array element is a valid non-zero integer maximum of 10 digits.
* The array elements are positive values.

Output Format

The decoded PIN.

Sample Input Sample Output

14 18 6 548 46 78

ei68a6

Sample Input Sample Output

0 1 2 8 45 5896

0a28ia

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q7.

Write a program that computes the length of the longest common subsequence (need not be consecutive) of two given strings. For example, given "epidemiologist", "refrigeration", it should return 5, since the longest common subsequence is "eieio".

Sample Input Sample Output

anitha

manisha

Length of LCS is 5

Sample Input Sample Output

hello

world

Length of LCS is 1

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Answer Key & Solution

Section 1 - VERBAL

Q1

Only III is implicit

Solution

Assumption (I) is not implicit as the health of B is not discussed in the statement.

Assumption (II) is not implicit as the statement talks nothing about A's profession.

Assumption (III) is implicit as the statement is a suggestion and it is only given because long journey makes oneself uneasy.

Q2

PQSR

Solution

Solution: Here the statement advised us to pay attention to the father's financial situation which is told in sentence P, followed by Q that says what is father's plan after retirement. It is then followed by some questions that we must know and finally conclude with how we can make our father's retirement life more cheerful. So the correct sequence would be PQSR.

P) As a child, you may have paid little attention to your father‘s financial hardships. Q) You may also be unaware about how your father intends to sustain himself through his non-working years. S) Does he have a pension plan? Has he invested adequately? Does he have health coverage? R) These are some of the conversations you need to have with your father to ascertain his financial security needed to lead his golden years with dignity.

Q3

D

Solution

Th word Kannur Junction does not need any article.

D has the error.

Q4

Compliant

Solution

Mutinous means refusing to obey the orders of a person in authority.

Abstruse - difficult to understand; obscure.

Esoteric - intended for or likely to be understood by only a small number of people with a specialized knowledge or interest.

Recondite - (of a subject or knowledge) little known; abstruse.

Compliant - disposed to agree with others or obey rules, especially to an excessive degree; acquiescent.

Q5

If both the statements I and II are effects of some common cause

Solution

Here, both the statements I and II are effects of some common cause.

Q6

Indians recognized the border drawn by colonial powers.

Solution

Choice (The line was drawn by a Britisher by the name Mc Mohan.): The passage has no reference to the British. Hence, it is out of context.

Choice (Indians recognized the border drawn by colonial powers.): As the Indians are using the Mc Mahon line, it can be concluded that it accepts the border drawn by the colonial powers. Hence, this is a conclusion.

Choice (The Mc Mohan line is not to the advantage of these Chinese.): As the Chinese were not accepting the Mc Mahon line, it can be inferred that it is not to the advantage of the Chinese. Hence, this is an inference.

Choice (The Indians are not in good terms with the colonial powers.): This statement contradicts the Indian stance in the case of Mc Mahon line.

Q7

(B) and it is believed to have been

Solution

Ans. (2). Use of that in option (1) objectifies a living being. Hence it is incorrect. Similarly, use of which in option (4) makes it a collective noun whereas the original statement refers to the reptile as a proper noun. Hence option (4) is also incorrect. The statement implies a universal truth and hence its tense needs to be in present continuous. However, option (3) makes it past tense and hence this is also incorrect. Thus, only option (2) is the correct answer.

Q8

B

Solution

The word ancient has vowel sound in it.

Hence, "an" ancient meditative discipline is correct.

Q9

dullness

Solution

INGENUITY is quality of being creative or clever

skillfulness is the synonym of ingenuity

cunning achieving by deceiving.

inventive ability to create new

dullness meaning lack of brightness is the answer

Q10

In order to reduce light-duty vehicle greenhouse gas emissions, a company can either use low-carbon and renewal power or make land use changes; however, neither of these strategies is by itself sufficient to achieve success and must be used together to reduce emissions.

Solution

(1) The correct phrase will be neither of these activities is by itself. Also use needs to come after either so that it can make parallel after or.

(2) The correct phrase will be neither of these activities is by itself.

(3) Land use changes have to be made is passive and breaks the parallelism. Themselves needs to be itself.

(5) There is no need to repeat the pronoun it after or as this breaks the parallelism.

Hence, Answer is Option 4.

Q11

(C)

Solution

Either and Neither (without of) are followed by a singular noun and take the verb in singular form. Replace the plural verb ‘were’ with singular verb ‘was’.

Q12

ADBEC

Solution

Passage must begin with A as only A introduces the setting of ‘the market price above or below the equilibrium price.’ B, C, D and E cannot begin the passage with their ‘only,’ ‘we can count,’ ‘to overcome’ and ‘the equilibrium price’ respectively as they only advance the argument introduced by A. D should obviously follow A with its ‘to overcome a surplus or shortage’ which refers to what has been introduced or mentioned in A, B should follow D as B talks of ‘no further adjustments required’ only at the ‘equilibrium price,’ E should follow B which describes or defines ‘equilibrium price,’ C should follow E and conclude the passage telling ‘to find this equilibrium,’ ‘market participants’ are to be dependent upon, C’s ‘this equilibrium’ refers to what has been mentioned in E.

Option (a): passage correctly begins with A but C wrongly follows it whereas C should follow E and conclude the passage after E has defined ‘the equilibrium price.’ C tells ‘market participants’ are to be relied on to find this ‘equilibrium price’ and so on.

Option (c): passage wrongly begins with D whereas D should follow A. after A has introduced ‘setting’ of ‘the market price’ ‘above or below the equilibrium price’ D should obviously follow with its ‘surplus or shortage’ etc.

Option (d): passage wrongly begins with C whereas C should follow E and conclude the passage, after E has described or defined ‘the equilibrium price’ C should follow it telling how ‘this equilibrium’ is to be found. Except (b) the other options are wrong.

Q13

curse

Solution

The word scourge means bane or blight. Anathema refers to disgrace, boon refers to benefit and benediction refers to blessing which is the antonym. So the best answer is curse which means blight. Ans.(4)

Q14

exaggerate

Solution

Belittle means criticize, cut down to size, to express scornfully one's low opinion of.

Q15

than the permanent revolution of the market forces.

Solution

Two things are being compared, so 'than' should be used. It should be 'revolution of'

Q16

(c)

Solution

Replace ‘did not know hardly’ by ‘hardly knew’. Hardly means ‘almost not’ and it is used as an adverb.

Q17

cloistered

Solution

The word reclusive means isolated or protected. Abstemious refers to moderate, indulgent refers to tolerant and frugal refers to careful. So the best answer is cloistered which means protected. Ans.(4)

Q18

b

Solution

News is taken as a single entity, and so it should be followed by 'has' and not 'have.' So the answer is 2.

Q19

on a charge of stealing

Solution

The preposition usage is incorrect in the underlined part of the sentence. Prepositions are short words (on, in, to) that usually stand in front of nouns (sometimes also in front of gerund verbs).

Under the charge of stealing is incorrect.

‘Under’ is commonly used to indicate position and the usage here is absurd.

Based on the rules to use prepositions, ‘with’ and ‘in’ are inappropriate in this context Hence the choices "With the charges of stealing and in the charge of stealing " are incorrect . ‘This man has been arrested on a charge of stealing’ is correct.

Q20

modest

Solution

Ostentatious means characterized by or given to pretentious or conspicuous show in an attempt to impress others

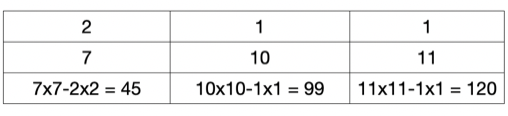
Modest means free from ostentation or showy extravagance

Section 2 - Q&R

Q1

99

Solution



Q2

None of these

Solution

The ratio in the 1st qulaity = 3:5

The ratio in the 2nd qulaity = 2:3

The ratio in the 3rd qulaity = 8:11

From the given 11 \* x = 10 kg

x = 1011

=> 8x = 8011

= 7.27kg

Q3

30

Solution

Let his usual speed be x km/hr and his usual time be t hours. His time on this occasion is 3/5x.

The time taken is (t + 12/60) hours.

Since the distance travelled on both occasions is the same, Xt = 3x/5 x (t + 12/60)

Solving for t, we get t = 18 minutes, and the time taken on this occasion = 18 + 12 = 30 minutes.

Q4

10 years

Solution

Let ages of Sachin and Anjali are 4x and 5x3 yrs ago,4x - 3 : 5x - 3 = 5 : 7=>4x - 3/5x - 3 = 5/7=>3x = 6x=2

=>Age of Anjali is 5x = 10

Q5

Rs.60000

Solution

80:40,000=120:X

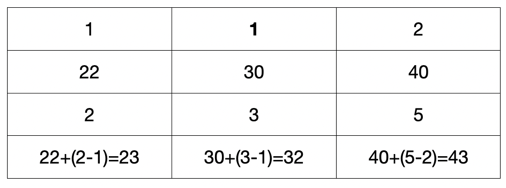
X=(40,000\*120)/80

x=60,000

Q6

1

Solution



Q7

If the question cannot be answered on the basis of the two statements.

Solution

From II, we know the opponent score = 4.

So at half time, there are 2 scenarios:

i) Real Madrid 0 and Chelsea 3

ii) Real Madrid 1 and Chelsea 4

From I, the final score would be:

i) Real Madrid 4 and Chelsea 4

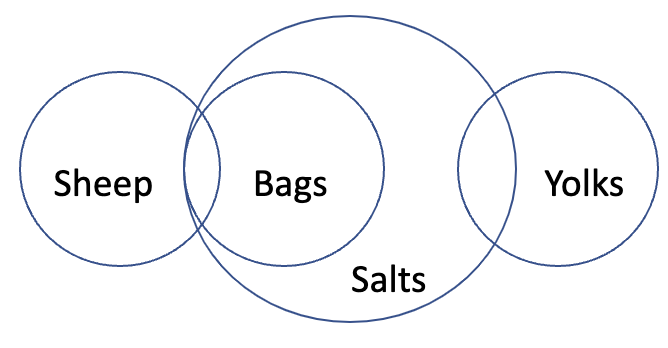
ii) Real Madrid 5 and Chelsea 4

Since we cannot say definitely if Real Madrid won the match or if it was drawn, the answer is e

Q8

Only I and IV follow

Solution



Q9

5000

Solution

Profit share of A\* Total investment / Total profit = A's Investment

Investment of A = 750\* 12000/1800 = 5000

Q10

1362480

Solution

24 => 8 x 3;

A number divisible by 24 must be divisible by 8 & 3 .

Divisibility rule for 8 is :Last 3 digits should be divisible by 8.

Divisibility rule for 3 is:sum of the digit should be divisible by 3.

While seeing the options (3) is exactly divisible by 8.

Last 3 digits is 13,62,480.

So we have to check for ‘3’ divisibility rule.1+3+6+2+4+8+0=24

So it is divisible by 3 also.

Hence option(3) is exactly divisible by 24.

Q11

10:8:7

Solution

Ratio of Investment= 2:3:4

Ratio of the Profit= 5:6:7

Let Ratio of Time= x:y:z

Profit= Investment\*Time

2x:3y:4z=5:6:7

2x/3y= 5/6

x/y= 5/4

3y/4z= 6/7

y/z=8/7

x:y=5:4= 10:8

y:z=8:7

x:y:z= 10:8:7

Q12

11:00 am

Solution

Total work = LCM(4,5,6) = 60 units

Efficiency of Abi = 15 units/hour = 60/4

Efficiency of Brindha = 12 units/hr = 60/5

Efficiency of Chetan = 10 units/hr = 60/6

Abi left after 1 hour.

So, 1(15+12+10) + X(12+10) = 60

X = 23/22 = 1 hr (approx)

So after 11 AM, work will be finished.

Q13

if neither conclusion I nor conclusion II follows

Solution

if neither conclusion I nor conclusion II follows

Q14

 if the question cannot be answered even by using both statements together.

Solution

Using statements (A) and (B) together, it is only possible to determine the total amount paid for fire insurance in 2016 and 2018.

Since no relationship is given between the amounts paid in 2016 and 2018, there is not enough information to determine the cost in 2018.

Q15

30 degree

Solution

In a three sided polygon, the sum of interior angles are 180 degrees

3x+6x+9x = 180

18x=180

x=10

Smallest angle is 3x= 3\*10= 30.

Section 3 - TECHNICAL

Q1

8

Solution

funn(1,4) => funn(2,3)+funn(4,5)

funn(2,3) => 3

funn(4,5)=> 5

Therefore funn(1,4) = 3+5 =>8

Q2

2 2

Solution

Both the while loop executed twice, so c and d updated to 2.

Q3

1 2 3 4 5 journey

Solution

When i=0 , first and second if block gets executed and prints 1, 2 by incrementing 'a'.

When i=1,2,3 , only first if block gets executed and prints 3,4,5 by incrementing 'a' in each iterations. Then, finally journey gets printed. So output is 1 2 3 4 5 journey.

Q4

13

Solution

If condition gets failed so there is no change in the values. Therefore, 1+4+8=13.

Q5

2

Solution

funn(2,7)= funn(7,2)+funn(7,1)

funn(7,2)=1 (because if block condition gets failed)

funn(7,1)=1 (because if block condition gets failed).

So funn(2,7) = 1+1 => 2

Q6 Hidden Test Case Input Output

145 875 695 214 12 0

a22gc0

Weightage - 50 Input

21 48 7 654 78965 145

Output

ccg68a

Weightage - 50 Sample Input

14 18 6 548 46 78

Sample Output

ei68a6

Sample Input

0 1 2 8 45 5896

Sample Output

0a28ia

Q7 import java.util.\*;

class Main

{

int lcs( char[] X, char[] Y, int m, int n )

{

if (m == 0 || n == 0)

return 0;

if (X[m-1] == Y[n-1])

return 1 + lcs(X, Y, m-1, n-1);

else

return max(lcs(X, Y, m, n-1), lcs(X, Y, m-1, n));

}

int max(int a, int b)

{

return (a > b)? a : b;

}

public static void main(String[] args)

{

Main lcs = new Main();

String s1;

String s2;

Scanner in=new Scanner(System.in);

s1=in.nextLine();

s2=in.nextLine();

char[] X=s1.toCharArray();

char[] Y=s2.toCharArray();

int m = X.length;

int n = Y.length;

System.out.println("Length of LCS is" + " " +

lcs.lcs( X, Y, m, n ) );

}

}