2026 ACCENTURE TEST-2

Test Summary

* No. of Sections: 3
* No. of Questions: 53
* Total Duration: 120 min

Section 1 - VERBAL

Section Summary

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

Additional Instructions:

None

Q1.

Fill in the blanks with the correct option given in the option

Unlike the misleading television documentary, the biography was \_\_\_\_\_\_.

interesting

accurate

fantastic

phony

Q2.

Find the odd item in the group

expedition

campaign

crusade

cruise

Q3.

Select most suitable synonym

xenophobia

racism

ribaldry

illegitimacy

brutalism

Q4.

Identify the correct sentence or sentence. Check grammar, usage, mechanics, redundancy and style elements

A. One of the combatants was unhurt, and the other sustained a wound in the arm of no importance.

B. My family, who do not see me often, has asked me home for Deepavali

C. Each of the prisons are full.

D. Sprinkled with chopped coriander, kids are popular with these potatoes.

A, B

A, C

C, D

None of the above

Q5.

The sentences given in each 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. If the market falls to reflect our notions of equity, government intervention may be needed to redistribute income

B. Beyond the question of what to produce, we are also concerned about for whom output is to be produced

C. In general, the market mechanism tends to answer the basic question of for whom to produce by distributing a larger share of total output to those with the most income

D. Although this result may be efficient, it is not necessarily equitable

E. Is the distribution of goods and services generated by the marketplace “fair”?

BEACD

DCBEA

CBEAD

DACBE

Q6.

Fill in the blank:

They \_\_\_\_\_\_\_\_\_\_\_\_\_\_ well at work but not socially.

get off

get into

get on

get in

Q7.

Choose the word that best fits the meaning of each sentence.

Bibliophiles wonder if technology will eventually turn books into \_\_\_\_\_\_\_\_\_\_ as out of place as the grammar school slate

antiques

redundancies

curiosities

anachronisms

Q8.

Each of the following questions has a paragraph with one italicized word that does not make sense/is incorrectly used. Choose the most appropriate replacement for that word from the options given below the paragraph.

Joe's poems were *wraith* rather than truly accomplished; if you read them closely, you realized they were filled with cliches.

vituperate

gauche

maunder

facile

Q9.

Identify the part of the sentence which is grammatically incorrect.

All one can gather from the children are that there were a loud noise and smoke.

All one can gather

from the children

are that there were

a loud noise and smoke

No error

Q10.

Each of the sentences below has one or two blanks, each blank indicating that something has been omitted. Beneath the sentence are four numbered words or sets of words. Choose the word or set of words that best fits the meaning of the sentence as a whole.

Though the general’s carefully qualified public statement could hardly be \_\_\_\_\_\_, some people took \_\_\_\_\_\_ it.

respected, liberties with

inoffensive, umbrage at

faulted, exception to

credited, potshots at

Q11.

Read each question and answer the question given below each accordingly.

A year ago, Dietz Foods launched a yearlong advertising campaign for its canned tuna. Last year Dietz sold 12 million cans of tuna compared to the 10 million sold during the previous year, an increase directly attributable to new customers brought in by the campaign. Profits from the additional sales, however, were substantially less than the cost of the advertising campaign. Clearly, therefore, the campaign did nothing to further Dietz’s economic interests.

Which of the following, if true, most seriously weakens the argument?

Sales of canned tuna account for a relatively small percentage of Dietz Foods’ Profits.

Most of the people who bought Dietz’s canned tuna for the first time as a result of the campaign

were already loyal customers of other Dietz products.

A less expensive advertising campaign would have brought in significantly fewer new customers for Dietz’s canned tuna than did the campaign Dietz Foods launched last year.

In each of the past five years, there was a steep, industry-wide decline in sales of canned tuna.

Q12.

Today he is \_\_\_\_\_\_\_\_. He got a job offer.

in high skills

in high spirits

in low spirits

out of spirits

Q13.

I don’t understand why people have gone crazy about the movie. It was just a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ movie.

run-of- the-mill

run out of the mill

run onto the mill

run up

Q14.

Convert the voice of the given statement :

The pets hold a special place in the hearts of their owners.

A special place in the hearts of the pet owners is held by them

A special place was held by the pets in the hearts of their owners.

 A special place is held by the pets in the hearts of their owners.

A special place is being held by the pets in the hearts of their owners

Q15.

Spot the error in the given sentence which is divided into parts and if there is no error mark "e" as the answer

(a) I saw a man hit with a stone/ (b) but did not know / (c) whom it was/ (d) due to darkness. / (e) No error.

a

b

c

d

e

Q16.

**Change from direct speech to indirect speech**

“Hurry up,” she said to us.

She said us to hurry up.

She says us to hurry up.

She told us to hurry up.

She tell us to hurry up.

Q17.

Spot the grammatical error in the given sentence

In India, often enough (a),/ we have to deal with a way of thinking which follows (b)/ old rites, sometimes with superstitions and with outlooks that (c)/ stands in the way of progress. (d)/No error (e)

A

B

C

D

E

Q18.

Choose the option that most logically completes the idea as stated in each paragraph.

In the words of Norman Cousins, pain is not the ultimate enemy; it is one of the greatest teachers. Headaches are generally extra-cranial and the reasons could be eye strain, sinusitis, referred pain from cervical spondylosis, or sometimes due to lack of sleep. Headaches must never be taken lightly. An attempt must be made to identify their cause and eliminate it before you decide to pop a pill as taking painkillers can have serious side effects.

Headaches are often indicators of a disease, the symptoms of which do not manifest it immediately.

The use of painkillers to tackle headaches may often not allow the proper diagnosis of the disease from which the individual may suffer.

Early headaches often result in allowing an individual to tackle the intensity and eventual trauma of suffering from a serious disease.

Individuals who understand their headaches have higher endurance levels than those who take painkillers.

Q19.

Choose the correct option

A person who holds different opinions from established beliefs

Heterodox

Polyhistor

Hypochondriac

Coxcomb

Q20.

Rajesh was late again this morning. Every time he has a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_story to convince others.

cock and bull

rat and cat

fairy tale

king’s story

Section 2 - Q&R

Section Summary

* No. of Questions: 20
* Duration: 30 min

Additional Instructions:

None

Q1.

If sinA + sin﻿2A = 1 then what is the value of cos2A + cos4A?

1

-1

0

2

Q2.

The compound interest on a certain sum for 2 years is Rs.40.80 and the simple interest is Rs.40. Find the sum?

Rs.500

Rs.400

Rs.450

Rs.600

Q3.

 A boy ride his bicycle Northward, then turned left and ride 1 km and again turned left and ride 2 km. He found himself 1 km west of his starting point. How far did he ride northward initially?

1 km

2 km

3 km

6 km

Q4.

 If the cost price of shoes doubles, then the loss gets tripled of what it was initially. The initial loss % was ?

42

50

52

58

Q5.

10 women can do a piece of work in 6 days, 6 men can do same work in 5 days and 8 children can do it in 10 days. What is the ratio of the efficiency of a woman, a man and a child respectively?

4:8:3

1:1:1

2:3:4

5:4:8

Q6.

A coins of 1,2, 5 rupees are tossed , what is the probability of getting a head on 1,tail on 2 and head on 5 rupee.

1/2

1/4

1/8

1/16

Q7.

A 280 meters long truck crosses a platform thrice its length in 6 minutes 40 seconds. What is the speed of the truck?

3.6 m/s

2.8 m/s

4.2 m/s

1.5 m/s

Q8.

The average age of 3 children is 9 years. This gets doubled if their father’s age is also included. The age of the father is

73 years

27 years

45 years

None of these

Q9.

A and B are standing on ground 50 meters apart. The angles of elevation for these two to the top of a tree are 60° and 30°. What is height of the tree?

50√3 m

25/√3 m

25√3 m

25/(√3 − 1) m

Q10.

Each of the questions given below contains a question and two statements numbered I and II. You have to decide whether the data given in the statements are sufficient for answering the questions.

On which day in June did the school reopen?

I. Manoj correctly remembers that the school reopened after 12th June but before 16th June.

II. Manoj’s classmate Ashok correctly remembers that the school reopened after 14th June but before 18th June.

If statement II alone is sufficient but statement I alone is not sufficient.

If the data either statement I alone or in the statement II alone are sufficient to answer the question.

If the data even in both the statement together are not sufficient to answer the question.

If the data in both the statement I and II together are needed to answer the question.

Q11.

Evaluate :log9 27- log27 9

5/6

1/6

6/7

3/7

Q12.

 Father is 5 years older than mother and mother’s age now is thrice the age of the daughter. the daughter is now 10 years old. What was father’s age when the daughter was born?

20 years

15 years

25 years

30 years

Q13.

Sachin starts from his house, and travels a distance of 6 km towards south. Then, he turns to his right and travels a distance of 8 km. Finally, he travels 10 km towards north to reach the cricket ground. What is the distance between Sachin's house and the cricket ground?

10 Km

4√3 km

4√5 km

5 Km

Q14.

In each of the question below are given two statements followed by two conclusions numbered 1 and 2 you have to take the two given statements to be true even if they seem to be at variance from commonly known facts and decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts

Statements: Some players are singers. All singers are tall.

Conclusions:

1. Some players are tall.

2. All players are tall.

If only conclusion I follows

If only conclusion II follows

If either I nor II follows

If neither I nor II follows

Q15.

Logical Sequence

1.Probation 2. Interview 3. Selection 4. Appointment letter 5. Advertisement 6. Application

5,6,3,2,4,1

5,6,2,3,4,1

5,6,4,2,3,1

6,5,4,3,2,1

Q16.

A student first decreased a number by 20% and then increased the decreased number by 20%. The number so obtained is 20 less than the original numbers what was the original number?

100

500

400

200

Q17.

12 men can complete a piece of work in 9 days. After 3 days, 6 men joined to replace 2 men. How many days would be required to complete the remaining work?

4 (2/5) days

3 (2/5) days

2 (1/2) days

4 (1/2) days

Q18.

Some questions are solved on the basis of a certain system. On the same basis, find out the correct answer from amongst the four alternatives for the unsolved equation in each question.

If 12 – 5=84, 10-5 =50, 8-5=24, then 6-5=?

11

30

6

1

Q19.

If the nth term of an A.P, is 4n – 1, find the 30th term and the sum of first 30 terms.

119 and 1830

119 and 1380

69 and 1665

None of these

Q20.

Two pipes A and B would fill a cistern in 3712

minutes and 45 minutes respectively, both pipes being opened, find when the second pipe must be turned off, so that the cistern may be filled in half an hour

3 minutes

4 minutes

9 minutes

8 minutes

Section 3 - TECHNICAL

Section Summary

* No. of Questions: 13
* Duration: 70 min

Additional Instructions:

None

Q1.

KG theatre in the city is newly renovated. So, they decided to give a 20% discount if one person buys more than 15 tickets. Also, they give an extra 5% discount, if he/she is a student. There won't be any discount if anyone purchases fewer than 15 tickets. The ticket rate may vary based on the movie.

Karthik has planned to book the tickets for his juniors and friends. Help Karthick to calculate the amount and display whether the discount is applied or not.

Input Format

The first line of input consists of the ticket rate.

The second line consists of the number of tickets.

The third line consists of the category.

Output Format

The output prints the discount details in the first line.

The total amount is in the second line.

Refer to the sample outputs for the exact text and format.

Constraints

Category =1 (for Students)

Category !=1 (for others)

Sample Input Sample Output

100

20

1

Discounts Applied - Maximum Tickets and Student

Total Amount - 1500.00

Sample Input

100

20

2

Sample Output

Discount Applied - Maximum Tickets

Total Amount - 1600.00

Sample Input

100

10

1

Sample Output

No Discount Applied

Total Amount - 1000.00

Sample Input

100

10

2

Sample Output

No Discount Applied

Total Amount - 1000.00

Time Limit: 10 ms Memory Limit: 256 kb Code Size: 1024 kb

Q2.

**Problem Statement**

Given two strings, where the first string may contain wild card characters and the second string is a normal string. Write a function that returns true if the two strings match. The following are allowed wild-card characters in the first string:

\* - Matches with 0 or more instances of any character or set of characters.

? - Matches with any one character.

Input Format

The first string contains the characters along with the symbols - ? and \*.

The second string is the one without any symbols.

Output Format

The output displays either "Yes" or "No", based on the string matching.

Constraints

2 <= Length of the string <= 100

Sample Input

i?mneo

Sample Output

iamneo

Yes

Sample Input

i?m

Sample Output

iaam

No

Sample Input

i\*mn?o

Sample Output

iaamneo

Yes

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

Q3.

Manoj lives in a snowy country like Canada. He records the rainfall each month and wants to identify the rate of rainfall for that particular year. Store the rainfall of each of the 12 months in an array. Calculate the sum, average and the month with low and high rainfall. Write a program for the same.

Input Format

Input consists of the list of 12 integers that represents the value of rainfall each month.

Output Format

The first line of the output consists of the sum.

The second line has an integer that represents the average rainfall.

The third line prints the month with the lowest rainfall.

The fourth line of the output prints the month with the highest rainfall.

Sample Input

9 8 5 4 2 3 1 16 13 18 17 27

Sample Output

Total rainfall : 123

Average rainfall : 10

Lowest rainfall month : 7

Highest rainfall month : 12

Sample Input

9 8 -5 4 2 3 1 16 13 18 17 27

Sample Output

Invalid input

Q4.

What will be the value of x and y after the execution of the given code?

#include <stdio.h>

void fun(int x, int y)

{

x = 10;

y = 20;

}

int main()

{

int x=1,y=2;

fun(x,y);

printf("%d %d",x,y);

return 0;

}

1 2

10 20

11 22

9 19

Q5.

What will be the output of the following pseudocode for p=3,q=4?

1.int fun1(int p,int q)

2.if ( q EQUALS 0)

3. return 0

4.if (q mod 2 EQUALS 0)

5. return fun1( p+p, q/2)

6.return fun1(p+p, q/2)+p

8

4

12

7

Q6.

To change line height to 1.5 we use shortcut key :

Ctrl+1

Ctrl + 2

Ctrl + 3

Ctrl + 5

Q7.

To update a formula in a table, press the

F9 key

ALT+F9 keys

SHIFT+F9 keys

F8 key

Q8.

Which of the following is true about pseudocode

A machine language

An assembly language

A high-level language

All of the above

None of the above

Q9.

What will be the output of the following pseudocode?

Set Integer array= [2, 4, 7, 8, 14, 21 28]

Set Integer Val= array[4]/14

display Val

1

0

2

3

Q10.

Determine the maximum length of the cable (in km) for transmitting data at a rate of 500 Mbps in an Ethernet LAN with frames of size 10,000 bits.

[Assume the signal speed in the cable to be 2,00,000 km/s]

1 km

2 km

5 km

6 km

Q11.

A \_\_\_\_\_\_ cloud combines multiple clouds where those clouds retain their unique identities but are bound together as a unit.

Public

Private

Community

Hybrid

Q12.

Which of the following is the URL form of output obtained from the micro-browser of WAP?

HTTP

JS

CS

All of the mentioned options

Q13.

Which protocol is used to retrieve email messages from a server and delete them from the server once they have been downloaded?

POP

IMAP

SMTP

HTTP

Answer Key & Solution

Section 1 - VERBAL

Q1

accurate

Solution

The word “unlike” means that two things are related in a negative or opposite

way. The correct answer choice will set up an opposite relationship with “misleading.” If something is not misleading, then it is (B) accurate, because these two words are opposites. A misleading documentary will trick viewers into believing falsehoods, but an accurate biography will lead readers to the truth. The correct answer is (B).

Q2

cruise

Solution

Cruise- sea voyage for pleasure. Other words are related to journey on land or sea with an aim.

Q3

racism

Solution

The word xenophobia means racial intolerance or racism. Ribaldry refers to rude, illegitimacy refers to illegal and brutalism refers to cruel. So the best answer is racism which means intolerance. Ans.(1)

Q4

None of the above

Solution

Sentence A: Rearrangement of the sentence is required. The correct sentence is: One of the combatants was unhurt, and the other sustained in the arm a wound of no importance. Sentence B : My family, who do not see me often, **have** asked me home for Deepavali . Family being a collective noun here .Sentence C: Each must be followed by a singular verb. The correct sentence is: Each of the prisons is full. Sentence D: Make sure the starter phrase refers to the very next word. The correct sentence is: Sprinkled with chopped coriander; these potatoes are popular with kids.

Q5

BEACD

Solution

Passage must begin with B as it introduces the argument on ‘What to produce,’ ‘for whom to produce’ etc. A, C, D and E cannot begin the passage with their ‘if the market fails,’ ‘In general,’ ‘Although this result’ and ‘Is the’ respectively as they are not as general as B is. E should obviously follow B as E asks the pertinent question whether ‘distribution of goods and services… fair?’ A should follow E which talks of the need for ‘government intervention for the redistribution of income.’ A’s ‘if the market fails’ refers to what has been said by E, D should follow A and conclude the passage as D says the ‘result may be efficient’ but not ‘equitable.’ Options (b) and (c): passage wrongly begins with D in both the options whereas D has to follow C and conclude the passage, after C has told ‘the market mechanism’ tells ‘for whom to produce by distributing a larger share’ to those ‘with the most income’ D should follow it telling ‘this result may be efficient’ but it is not necessarily ‘equitable’ and so on. Option (d): passage wrongly begins with C whereas C should follow A and precede D, after A has talked of ‘government intervention’ market not reflecting ‘our notions of equity’ C should follow it telling ‘market mechanism’ tells ‘for whom to produce’ and so on. Except (a), other options are wrong.

Q6

get on

Solution

get on-to have a good relationship

Q7

anachronisms

Solution

"Anachronism" means a thing belonging or appropriate to a period other than that in which it exists, especially a thing that is conspicuously old-fashioned. So the answer is 4.

Q8

facile

Solution

Ans. (4). The word wraith means a ghost..Option (4) is correct. Facile means fluent; skillful in a superficial way; easy. Option (1) is incorrect. Vituperate means insult; abuse and so is not suitable here. Option (2) is incorrect. Gauche means socially awkward and so is not suitable here. Option (3) is incorrect. Maunder means talk in a rambling way and so is not suitable here.

Q9

are that there were

Solution

"Were" should be replaced by "was"

Q10

faulted, exception to

Solution

Ans. (3). None among 'respected' (1), 'inoffensive' (2) and 'credited' (4) would be suitable for the first blank that follows 'could hardly be.' The word 'exception to' (3) would fit in the second blank following 'some people took.' The words 'umbrage at' (offence, a sense of slight) (2), 'potshots at' (random shots at a game bird or animals) (4) won't work. Hence, option (3) is the correct answer.

Q11

In each of the past five years, there was a steep, industry-wide decline in sales of canned tuna.

Solution

Choice (a): The issue is not the percentage of profits that canned tuna contributes, but the success of the advertising campaign.

Choice (b): If the customers bought the tuna because of the campaign, it is irrelevant to the argument that they also bought other Dietz products.

Choice (c): This information neither strengthens nor weakens the argument.

Choice (d): Correct. This statement properly identifies a factor that weakens the argument: the campaign secured the benefits of increased sales at a time when the entire industry was experiencing a decline in sales. The correct answer is option D.

Q12

in high spirits

Solution

No Solution

Q13

run-of- the-mill

Solution

No Solution

Q14

 A special place is held by the pets in the hearts of their owners.

Solution

The given sentence is in active voice. It is simple form of present tense.

The structures for active/passive voices are:

Active: Subject + verb (“s“ or “es” with singular noun) + object…Passive: Object + Is/are/am + verb (IIIrd form) + by + subject…

So, based on the above structures,

we can convert the given sentence into passive voice:

A special place is held by the pets in the hearts of their owners.

Q15

c

Solution

'whom' should be be replaced by 'who' in c.

Q16

She told us to hurry up.

Solution

You say words.

You tell someone about something.

So the right answer is "She told us to hurry up"

Q17

D

Solution

'Stands' should be in singular as it does not stand only for a single entity, but for superstitions and outlooks.

Q18

The use of painkillers to tackle headaches may often not allow the proper diagnosis of the disease from which the individual may suffer.

Solution

Ans. (2). Option (2) is correct. The paragraph indicates that use of painkillers can have side effects. These may overpower the main cause of the disease from which the individual may be suffering. A proper diagnosis may not then take place. Option (1) is incorrect. This statement does not add value to the paragraph as this fact is already indicated in the paragraph. Option (3) is incorrect. This statement has no factual support in the paragraph. Option (4) is incorrect. This statement has no factual support in the paragraph.

Q19

Heterodox

Solution

Heterodox - not conforming with accepted or orthodox standards or beliefs.

Polyhistor - a person of wide knowledge or learning.

Hypochondriac - a person who is abnormally anxious about their health.

Coxcomb - a vain and conceited man; a dandy.

So the answer is 1.

Q20

cock and bull

Solution

No Solution

Section 2 - Q&R

Q1

1

Solution

sinA + sin2A = 1

⇒ sinA = 1 – sin2A = cos2A    ----(1)

Squaring on both sides

sin2A = cos4A    ----(2)

Substitute (1) and (2) in the given expression.

cos2A + cos4A = sinA + sin2A = 1

∴ cos2A + cos4A = 1

Q2

Rs.500

Solution

S.I. = C.I. for the first year = Rs.20 each.

CI for the second year = 40.80

Difference between CI and SI in the second year = 0.80

=> Rate of interest = 0.8/20 × 100 = 4%

4% = 20

100% = 500

P=Rs.500

Q3

2 km

Solution

Q4

50

Solution

Let CP = 100 and Loss be X

SP = CP - X = 100 - X

CP doubles and loss triples

SP = 200 - 3X

100 - X = 200 - 3X

X = 50

Loss = 50%

Q5

4:8:3

Solution

Work done by 1 women in 1 day is 1/10 × 1/6 = 1/60

Work done by 1 men in 1 day is 1/6 × 1/5 = 1/30

Work done by 1 children in 1 day is 1/8 × 1/10 = 1/80

⇒ Ratio of their efficiencies is 1/60 : 1/30 : 1/80∴ Their efficiencies are in ratio 4 : 8 : 3

Q6

1/8

Solution

probablity of getting head on re 1= 1/2

probablity of getting tail on rs 2= 1/2

probablity of getting head on rs 5= 1/2

so net probablity= 1/2\*1/2\*1/2=1/8

Q7

2.8 m/s

Solution

For crossing the platform train have to cross (total distance = platform length + train length).

According to the question

Train length = 280 m

Platform length = 3 × train length = 3 × 280

= 840 m

∴ Total length = 280 + 840 = 1120 m

And time taken to cross platform = 6 min 40 sec = 360 sec + 40 sec

= 400 sec.

∴ Speed of train = total length/time = 1120/400

= 2.8 m/s

Q8

45 years

Solution

Average = sum of observation /No of observation

Sum of 3 children =27

From the data average is doubled,new average =18(3 children+Father)

Sum of children and father =72

father age must be 45

Q9

25√3 m

Solution

Q10

If the data in both the statement I and II together are needed to answer the question.

Solution

From I we know the answer has to be either 13, 14 or 15

From II we know the answer has to be either 15, 16 or 17

Since the only common term is 15, it is the answer

So both the statements are needed.

Q11

5/6

Solution

let log 9 27=n ;then 9n=27

32n=33 <=>2n=3; n=3/2

Again log 27 9=m. Then, 27m=9

33m=32 <=>3m=2; m=2/3

log 9 27 -log 27 9 =n-m = 3/2-2/3 = (9-4)/6= 5/6

Q12

25 years

Solution

Given: F=M+5,M=3D,D=10

M=3\*10=30 and F=30+5=35

The father’s age when daughter was born=35-10=25 years.

Q13

4√5 km

Solution

The path traversed by Sachin is as follows.Let H be Sachin house and C be the cricket ground

From the figure∴ AD = 6km, CD = 10 – 6 = 4 km and DH = 8 km

We know that CH2 = CD2 + DH2 = 64 + 16 = 80∴ CH = √80 = 4√5 km.

Q14

If only conclusion I follows

Solution

Q15

5,6,2,3,4,1

Solution

By seeing Advertisement, a person apply the application form and called for Interview . If the person got selected in Selection process, he will be Appointment order, works in probation for a time period

Q16

500

Solution

Let the: original number be 100.

Thus, the student must have obtained first the number as 80 (decreased 100 by 20%) and

then as 96 (increased the decreased number, i.e.80, by 20%).

Thus, the difference between the resultant number (i.e.96) and

 the original number (i.e.100) is 4. .·. 4 s 100 (assumed original number) 20 s?

 (Required original number) .·. ? = (20 × 100)/4 = 500.

or

Overall percentage change = a + b + (ab/100) = -20 + 20 - (400/100)

= -4%

Thus, 4% = 20

Then, 100% = 500

Q17

4 (1/2) days

Solution

Let x be the number of remaining days,

Total work= 12\*9 = 108 units

12\*9= (3\*12)+(12+6-2)X

108= 36+ 16X

X= 72/16= 9/2= 4.5 days

Q18

6

Solution

12 × (5 + 2); 10 × (5 + 0) = 50; 8 × (5 – 2) = 24;

6 × (5 – 4) = 6.

Q19

119 and 1830

Solution

Tn = 4n – 1 ; T30 = 119

T1 = 3, T2 = 7, T3 = 11, …..8, T30 = 119

S30 = 1830

Q20

9 minutes

Solution

Pipe A =37 1/2 min

Pipe B =45 min

Let the volume be 225 units (LCM of 37 ½ & 45 min)

Pipe A can fill 6 units/min

Pipe B can fill 5 units/min

Both combined can fill 6 + 5 =11 units /min

Since pipe A is filling the cistern for all 20 minutes quantity filled by pipe A

=6 units/min × 30 min =180 units

The remaining is filled by pipe B and it fill at the rate of 5 units/min

Remaining volume =225 units -180 units =45 units

Time taken by pipe B to fill this volume is

45 units/5units/min =9min

Therefore, pipe B can be turned off after 9 minutes.

**Section 3 - TECHNICAL**

#include <stdio.h>

#include <stdlib.h>

int main()

{

float ticket\_cost,total\_amount;

int no\_of\_tickets,category;

scanf("%f",&ticket\_cost);

scanf("%d",&no\_of\_tickets);

scanf("%d",&category);

if((no\_of\_tickets>15) && (category==1))

{

total\_amount=(ticket\_cost\*no\_of\_tickets)\*0.75;

printf("Discounts Applied - Maximum Tickets and Student");

}

else if((no\_of\_tickets>15) && (category!=1))

{

total\_amount=(ticket\_cost\*no\_of\_tickets)\*0.80;

printf("Discount Applied - Maximum Tickets");

}

else

{

total\_amount= ticket\_cost\*no\_of\_tickets;

printf("No Discount Applied");

}

printf("\nTotal Amount - %0.2f",total\_amount);

return 0;

}

Q2. #include <iostream>

using namespace std;

bool match(string first, string second)

{

// If we reach at the end of both strings, we are done

if (first.empty() && second.empty())

return true;

// Make sure to eliminate consecutive '\*'

if (first[0] == '\*') {

while (first[1] == '\*')

first.erase(0, 1);

}

// Make sure that the characters after '\*' are present

// in second string. This function assumes that the

// first string will not contain two consecutive '\*'

if (first[0] == '\*' && first.size() > 1

&& second.empty())

return false;

// If the first string contains '?', or current

// characters of both strings match

if (first[0] == '?' || first[0] == second[0])

return match(first.substr(1), second.substr(1));

// If there is \*, then there are two possibilities

// a) We consider current character of second string

// b) We ignore current character of second string.

if (first[0] == '\*')

return match(first.substr(1), second)

|| match(first, second.substr(1));

return false;

}

// A function to run test cases

void test(string first, string second)

{

match(first, second) ? cout << "Yes" : cout << "No";

}

// Driver program to test above functions

int main()

{

string first, second;

cin >> first;

cin >> second;

test(first, second); // Yes

return 0;

}

Q3. #include<stdio.h>

int main()

{

int rainfall[15],i,sum=0,avg,min,max,lowmonth=1,highmonth=1,flag=0;

for(i=0;i<12;i++)

{

scanf("%d ",&rainfall[i]);

sum += rainfall[i];

if(rainfall[i]<0)

flag=1;

}

avg = (sum/12);

min=rainfall[0];

for(i=1;i<12;i++)

{

if(min> rainfall[i])

{

min= rainfall[i];

lowmonth=i+1;

}

}

max=rainfall[0];

for(i=1;i<12;i++)

{

if(max < rainfall[i])

{

max= rainfall[i];

highmonth=i+1;

}

}

if(flag==0){

printf("Total rainfall : %d\n",sum);

printf("Average rainfall : %d\n",avg);

printf("Lowest rainfall month : %d\n",lowmonth);

printf("Highest rainfall month : %d",highmonth);

}

else

printf("Invalid input");

return 0;

}

Q4

1 2

Solution

No Solution

Q5

12

Solution

No Solution

Q6

Ctrl + 5

Solution

No Solution

Q7

F9 key

Solution

No Solution

Q8

None of the above

Solution

No Solution

Q9

1

Solution

No Solution

Q10

2 km

Solution

Data should be transmitted at the rate of 500 Mbps.

Transmission Time >= 2\*Propagation Time

=> 10000/(500\*1000000) <= 2\*length/200000

=> lenght = 2km (max)

Q11

Hybrid

Solution

No Solution

Q12

HTTP

Solution

No Solution

Q13

POP

Solution

No Solution