

2025_Hexaware_Actual_Test_15

Test Summary

- No. of Sections: 2
- No. of Questions: 90
- Total Duration: 90 min

Section 1 - Aptitude

Section Summary

- No. of Questions: 60
- Duration: 60 min

Additional Instructions:

None

Q1. By how much is three-fifth of 350 greater than four-seventh of 210 ?

90

100

110

120

Q2. Thomson while noting down the absolute values of temperature of an experiment got 71 as average in the first 5 attempts. He also noted that the average of the first and third attempts was 72 and the average of the second and fifth attempts was 75.

If Z's value is 50% more than the fourth attempt and Y's value is 10 more than Z, then find the average of Y and Z.

96.5

95.5

98.5

99.5

Q3. In a particular test, five persons A, B, C, D and E got different marks. The average marks of four groups of three persons are shown in the adjacent table

Persons	Average Marks
A, B, C	50
B, C, D	46.67
C, D, E	42
D, A, E	35.33

It is known that E got more than 30 marks. If D got 30 marks, then what is the mark obtained by E?

40

36

44

Can't be determined

- Q4. A man can row 6 km/hr in still water. If the speed of the current is 2 km/hr, it takes 4 hours more in upstream than in the downstream for the same distance. Find the distance

28 km

32 km

36 km

39 km

- Q5. 2 men or 4 women or 5 children can complete a piece of work in 38 days. In how many days will 1 man, 1 woman, and 1 child complete the same work?

- Q6. A road that is 7 m wide surrounds a circular park whose circumference is 352 m. What will be the area of the road?

2618 m²

654.6 m²

1309 m²

5236 m²

- Q7. A tree bent by the wind. The top of the tree meets the ground at an angle of 60°. If the distance between the top of the foot and the base of the tree is 8 m, then what was the height of the tree?

$8(\sqrt{3}-2)$ m

$8(\sqrt{3}+2)$ m

$8(\sqrt{3}-4)$ m

$8(\sqrt{3}+4)$ m

- Q8. A man watching from the top of a tower, a boat speeding away from the tower. The boat makes an angle of depression of 45° with the man's eye at when a distance of 100m from the tower. After 10 seconds, the angle of depression becomes 30°. What is the

speed of the boat approximately, assuming that it is running in still water?

23.28 km/hr

24.28 km/hr

25.28 km/hr

26.28 km/hr

Q9. What is the value of $\{\log_{13} (10)\} / \{\log_{169} (10)\} = ?$

$\log_{10} 13$

1/2

2

1

Q10. What is the characteristic of the logarithm of 0.0000134?

5

-6

6

-5

Q11. What is not true about the number zero?

Even

Positive

Additive identity

Additive inverse of zero

Q12. Concept of the divisibility only exists in a set of

Natural numbers

Integers

Rational numbers

Real numbers

- Q13. An error of 2% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is:

4.23%

4.04%

4.02%

4.05%

- Q14. A chord AB of a circle of radius 12 cm makes an angle of 30° at the center of the circle. Find the difference between the areas of the major and minor segments of the circle. (Use $\pi = 3.14$)

224.4 cm^2

412.8 cm^2

453.8 cm^2

448.8 cm^2

- Q15. Find the missing letters in the pattern:
_ _cccc_ _c_ _dc_ _d.

cccdcd

dddddccc

cdcdcdcd

cccdcccc

- Q16. On an Island, three types of tribes live- Saca, Jhav and Lobe. Sacas' always tell the truth, Jhavs' always lie and Lobes' tell the truth and lie alternating (they can tell truth first or lie first). Three persons (of different tribes) from this Island give these statements.

GABE: UCKO is of Sacas tribe; I am of Lobe tribe

BORRIS: GABE is of Jhavs tribe; I am of Sacas Tribe

UCKO: BORRIS is of Jhavs tribe; I am of Lobe tribe.

GABE belongs to which tribe?

Sacas

Jhavs

Lobe

Either 1 or 3

Q17. How is my only sibling's brother's mother's daughter's husband related to me?

Daughter-in-law

Sister-in-law

Brother-in-law

Son-in-law

Q18. Q's mother is the sister of R and daughter of S and N is the daughter of R and sister of M. How is 'M' related to S?

Son

Brother

Daughter's son

Data inadequate

Q19. In a non-leap year, which month will have the same calendar as that of January in that year?

April

July

October

March

Q20. If MOUSE is coded as ONUFT, then CLOCK will be coded as

MDOLD

MDPLD

NDOLD

MDOLE

- Q21. In a certain language, if SUNSHINE is coded as TVOTIJOF then how will MOON be coded:

NPPQ

NPPO

PPON

NQQP

- Q22. EAT + THAT = APPLE, what is the sum of A+P+P+L+E?

(The value should be an integer)

- Q23. MAC + MAAR = JOCKO, find the value of 3A + 2M + 2C.

(The value should be an integer)

- Q24. Fill in the blank by choosing the correct adjective.

You are the brightest and _____ man I've ever met

dumber

dumb

dumbuest

tallest

- Q25. Fill in the blank by choosing the correct adjective.

Martha wrote too (a) slow, (b) slowly. She always writes (c) slow, (d) slowly.

a and c

a and d

b and c

b and d

Q26. Fill in the blanks with appropriate prepositions.

I sent the parcel to my friend _____ courier.

through

with

in

into

Q27. If I _____ you tomorrow, I would bring your book back.

see

saw

will see

would see

Q28. Fill in the blanks:

He failed in the examination _____ the competition held in the college

as well as

although

because

therefore

Q29. I wanted to eat sushi for dinner _____ I went to a Japanese restaurant.

but

so

or

Q30. In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement: The State government has decided to appoint four thousand primary school teachers during the next financial year.

Assumptions:

- I. There are enough schools in the state to accommodate four thousand additional primary school teachers.
- II. The eligible candidates may not be interested in applying as the government may not finally appoint such a large number of primary school teachers

Only assumption I is implicit

Only assumption II is implicit

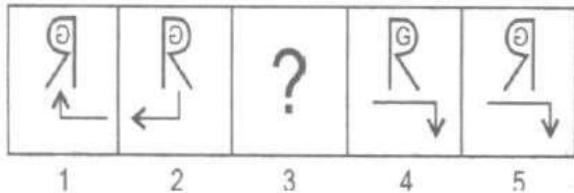
Either I or II is implicit

Neither I nor II is implicit

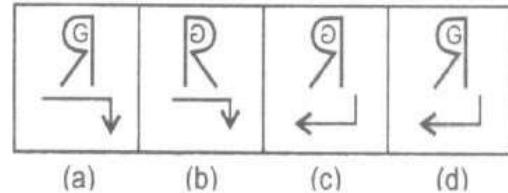
Both I and II are implicit

- Q31. Here there are two sets of figures. The figures on left hand side are problem figures marked by numbers 1,2,3,4 and 5 and on the right hand side are answer figures marked by alphabets a, b, c, and d. A series is established if one of the four answer figures is placed in place of the sign? in the problem figures. The figure from answer figures which should replace the sign? in problem figures is your answer.

Problem Figures



Answer Figures



a

b

c

d

- Q32. The question below consists of a question and two statements numbered A and B 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.

Is x positive? x and y are integers.

- (A) $(1/x) > (1/y)$ and $y < 0$
(B) $|x| > |y|$

if statement (A) alone is sufficient to solve the question, but statement (B) alone is not.

if statement (B) alone is sufficient to solve the question, but statement (A) alone is not.

if neither statement (A) nor statement (B) is individually sufficient to solve the question, but a combination of both is sufficient to solve the question.

if both the statements taken together are not sufficient and more information is required to solve the question.

- Q33. In a certain code, REFRIGERATOR is coded as ROTAREGIRFER. Which word would be coded as NOITINUMMA?

ANMOMIUTNI

AMNTOMUIIN

AMMUNITION

None of the mentioned options

- Q34. From his house Salman travelled 8 km straight followed by 8 km towards his right. Further he travelled 6 km to his left followed by 7 km to his right. Finally if he is facing the setting sun, then he would have started his journey in which direction?

East

West

North

South

- Q35.

Box No.	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	0	3	7	5	24	7	11	6	1	5

Add: (Number in box 7) + (Number in box 6)

Put result into box 1.

Multiply: (Number in the box 1) x (Number in the box 10)

Put the result in box 4

subtract: (Number in the box 4) - (Number in box 8)

Put result into box 11

What Number is now in box 11?.....

154

185

174

167

Q36. **Select the best pair that expresses the relationship like that of the given pair.**

Government: anarchy::

Joy: Bliss

harmony: dissonance

sobriety: mien

dichotomy: subtraction

Q37. **In the following question, find out the alternative which will replace the question mark.**

Philanthropist : Mankind:: Philotheism:?

Human

Fire

God

Belief

Q38. **Change the voice of the given sentence :**

Students believe in God all over the world.

God has been believed in all over the world by the people

God is believed in all over the world by the students

God was believed all over the world

God have been believed in all over the world by the students

Q39. **Choose the correct word according to the context.**

This book is an excellent introduction to the basic _____ of science.

PRINCIPLES

PRINCIPALS

Q40. Convert to the following to the other speech.

Madhu said, "We may go to see the Taj in the moonlit night."

Madhu said that we might go to see the Taj in the moonlit night.

Madhu told that we may go to see the Taj in moonlit night.

Madhu told that we must go to see the Taj in the moonlit night.

Madhu said that they must go to see the Taj in moonlit night.

Q41. Fill in the blanks with correct pair of words or phrases so that the sentence is grammatically meaningful and appropriate.

_____ platinum is _____ any other metal.

The, costlier than

No article, costlier than

The, more costlier than

No article, more costlier than

Q42. Identify the error in the following sentences

It has been reported by the chairman of the committee that all possible efforts are made to reach the target.

It has been reported by

the chairman of the committee that all possible efforts

are made to

reach the target

No error

Common Content:

8 persons Emile, Ford, Grant, Henry, Ida, John, Kim and Louis are seated around a square table - two on each side.

There are 3 ladies who are not seated next to each other.

John is between Louis and Ford.

Grant is between Ida and Ford.

Henry, a lady member is second to the left of John.

Ford, a male member is seated opposite to Emile, a lady member.

There is a lady member between Ford and Ida.

Q43. Who among the following is to the immediate left of Ford?

Grant

Ida

John

Henry

Q44. What is true about John and Kim?

John is male, Kim is female

John is female, Kim is male

Both are female

Both are male

Q45. Who among the following are three lady members ?

Emile, Henry and John

Emile, Ford and Grant

Emile, Henry and Ida

Grant, Henry and John

Q46. Who is sitting opposite to E ?

F

I

K

Cannot be determined

Q47. How many persons are seated between Kim and Ford?

1

2

3

Q48. Who among the following is seated between Emile and Henry?

Ford

Ida

Kim

Cannot be determined

Common Content:

Choose appropriate words to complete the passage.

In the ___1___ of India's economic boom, Indian Professional Service Firms (PSFs) from management consultancies and investment banks to advertising agencies and law firms are ___2___ to attract the best and the brightest talent. But to be truly successful they have to do more than that. Like PSFs around the world, they need to ___3___ their professionals rather than see them walk out of the door in ___4___ of opportunities. To achieve that, companies often rely on the ___5___ of sprawling campuses and luxurious facilities.

Q49. Choose the appropriate word for the blank numbered(2)

opposing

rivalling

partial

competing

Common Content:

Choose appropriate words to complete the passage.

Seed quality is an (1) aspect of crop production. For ages, farmers have traditionally been selecting (2) good quality seeds, since it was in their interest to do so. They knew and understood the importance of quality seeds in production. However, with the advent of green revolution technology, based (3) on the high-yielding dwarf varieties of wheat and rice, mainstream thinking changed. Agricultural scientists, for reasons that remain (4), began to doubt, the ability of farmers to maintain seed quality (5). Aided by the World Bank, the Ministry of Agriculture launched a National Seeds Project in 1967.

Q50. Choose the appropriate word for the blank numbered(5)

himself

themselves

sometimes

improve

Common Content:

Read the following and answer the questions given below.

An accident scene. EMTs are shouting various medical terms; we hear walkie-talkies and sirens, etc. Jimmy is standing by the driver's-side door of a truck and Max and Kenny are by the back.

JIMMY: Hold it. Kenny, hold it. You okay?

DAVID: I'm fine. Just get me out, please?

JIMMY: Alright, just ease up cause you're going to make this truck roll.

DAVID: Just get me out.

JIMMY: We'll get you out in a minute.

DAVID: Just get me out.

JIMMY: We'll get you out in a minute.

DAVID: Can you believe this stuff?

We go to the back of the truck now and see Max and Kenny.

KENNY: Hold on to it and get a flatbed. Must have hit a patch of ice.

The back door starts shaking.

MAX: Kenny, be careful. You don't want it sliding on top of you.

KENNY: I got it.

MAX: Kenny, don't stand back there.

KENNY: If I don't steady it, it might slide.

The doors open and a dead cow slides out. It lands on Kenny, sending him to the ground and in pain. He's lying on the ground in the mud, pinned down by a dead cow.

KENNY: Ow!

MAX: Oh!

KENNY: Ow!

MAX: Oh! What the hell?

KENNY: Get it off!

MAX: I can't! What's he doing with a dead cow?

JIMMY: What the hell is this all about?

MAX: Somebody do something please!

KENNY: Someone get it off!

Theme song

In the Sheriff's office, Max, Jimmy and Kenny are discussing the case.

MAX: He still claims he was just driving it to the other side of the property to bury it.

JIMMY: At night?

KENNY: Why was the stomach cut open and how did the cow die?

MAX: Well, I don't know but what do you want to do, investigate a dead cow?

Carter bursts in, excited.

CARTER: Alien DNA.

JIMMY: Beg your pardon?

CARTER: They injected it in the cows. It's going on at David Pastor's farm, I know it.

MAX: What are you talking about?

CARTER: I'm talking about cows being experimented on with DNA from aliens. It happens! I think it happened here! That's why David Pastor was trying to bury that animal at night – so people wouldn't find out!

JIMMY: DNA. From alien creatures?

CARTER: Don't look at me like that. I'm not a nut. The FBI's been all over Delta Glen, for the last week. They first thought the cows were being injected with some bovine growth hormone, turns out it's something else.

MAX: what?

CARTER: Well, I don't know what for sure. But I play table hockey with Bernie Totes, the Delta Glen coroner? He told me there's talk of alien DNA.

MAX: There were two murders up there last week.

CARTER: Plus a mysterious plane crash with the doctor who was injecting kids with some mysterious vitamin drug, which turned some of them into teenage rapists.

MAX: What does this have to do with David Pastor's cows?

CARTER: Last year I went out there on an emergency, okay? Grant Savage was out of town, David knew I'd done some vet work and he called me. It was very strange. He had this laboratory – remember Jean La Vanchy and the methane gas chamber? Well this facility made that look like a 4H project. It was a mini-hospital. And there were technicians and they were very, very mysterious. They didn't want me asking questions, mmm-mmm.

MAX: Why didn't you say anything sooner?

CARTER: I didn't know what to say. But now it makes sense. They're doing the same thing that this Dr. Larson was doing over in Delta Glen. Those cows are being injected with something.

MAX: Something is strange about that farm, Jimmy. He's got a lot of high-tech security, I don't know what his produce is, and David Pastor's been pretty flush. How's he making all this money?

JIMMY: Call the FBI. Test that dead cow.

MAX: What?

JIMMY: You know where it's buried?

KENNY: I do. I helped him take it to the grave site.

JIMMY: Dig it up.

Kenny and Carter are at the burial site. They're lifting a dead cow with a crane.

KENNY: Almost got it now.

CARTER: I've never exhumed livestock before. This is excellent! Ooh, she's a biggie!

KENNY: This is crazy.

CARTER: Just get it back to my office, I'll test it there. This is big, Kenny! This is big. Ooh, serious rigor mortis. Nice and easy. Let her down easy, no bruising.

Headquarters (the area just outside the Sheriff's office). Agent Morrell enters and runs into Max.

MORRELL: I promised myself I'd never come back to this town...

MAX: Agent Morrell!

MORREL: Ah! Bovine injection. You called the FBI because the local farmer's giving his cow flu shots.

MAX: It's not flu shots, we've been informed that some cows in Delta Glen have been injected with some kind of alien DNA.

MORRELL: You're mistaken.

Carter bursts in, gets up close and personal to Morrell. At his first comment Morrell groans, annoyed.

CARTER: Well then what was the FBI doing in Delta Glen? What about the teenage rapists and the plane crash and the people in Red Prox who won't eat meat? I want answers.

Max pulls him back roughly by the jacket.

MAX: You remember Carter Pike?

CARTER: Tests turned up negative but that cow's been dead more than a week. I need a live sample. What happened to the Delta Glen cows?

MORRELL: There was no finding of any alien DNA with any Delta Glen cow.

MAX: Well, Carter said that there's a mysterious laboratory here in Rome where there's something going on.

CARTER: David Pastor. He doesn't sell milk, he doesn't sell beef, his cows stay indoors most of the time, and there's a high-tech lab.

Q51. When Carter exclaims: "This is big, Kenny! This is big", which of the following does he not imply?

The cow has been genetically altered to be unnaturally large in size.

The likelihood of gene tampering suggests that his scientific evaluation will reveal great news.

It is exciting for him to be involved in this exhumation.

The DNA racket that he has suspected for a long time may now be uncovered.

Q52. Which of the following interpretations of character are not suggested in the script?

Kenny is a partner to Max and has great personal regard for Max.

Agent Morrell is a big-league cop who conjectures that nothing worthwhile is going on here.

Jimmy is not excitable by nature, and is somewhat reserved with his colleagues.

Max is of the opinion that Carter can be over-enthusiastic at times.

Q53. Which of the following descriptions best sums up this excerpt?

It is a form of a documentary cum soap where the camera and viewer are mere observers of individuals caught in a high impact drama.

It belongs to reality television where the lives of "real people" are followed and we witness encounters with a staged situation.

It belongs to the sci-fi genre, which involves dangerous and sinister nature of knowledge which poses potential threat to the characters involved.

It is a kind of investigative drama, where broader issues are developed in a small-town setting.

Common Content:

Read the passage and answer the questions :

After the Berlin Wall fell in 1989 the world changed dramatically. The Cold War ended and the threat of communism ended in Europe. Such Eastern European countries as Hungary, Poland, Bulgaria, Romania, Czechoslovakia (now the Czech Republic and Slovakia) and others stopped being Soviet satellites. "East and West Germany, meanwhile, were moving rapidly toward unification." But this was not the end. In November 1991 the Soviet Union, "the evil empire" that had kept the democratic and non-democratic world in fear and strain for almost seventy years disappeared. It left fifteen independent republics, with Russia being the largest one. Russia, out of all the former Soviet bloc states and the former Soviet Union, was the first one to fall to Communism. But also it was the last one to liberate itself from it despite all the controversy going on outside Russia such as the three-day coup of August 1991 by Brezhnev-era hard-liners. These transformations, though painful sometimes, were unexpected and startling. There could be many explanations for why Communism was being abandoned: America's and NATO's successful containment policies; the arms race bankrupting Moscow, and "mostly it was the objective fact that Communism is a rotten system." But even such reasons would have never been enough if the human beings in the oppressed countries, stayed passive. However, the human spirit can never be destroyed and there is always an opposition to the existing regime whatever it is. In totalitarian societies such as Nazi Germany or Mussolini's Italy dissent was outlawed and dealt with brutally. In the Soviet Union, another totalitarian state, the opposition also was always illegal until the collapse of the empire with the brief exception of Alexander Kerensky's provisional government in 1917.

The dissident movement had a long history of persecutions in Russia starting from the Czarist times when great national poets and writers such as Alexander Pushkin, Michael Lermontov, Leo Tolstoy and Fyodor Dostoevsky suffered from censorship which extended to their brilliant works. It also had two major branches: the Westernizers and the Slavophils. The split in Russian society began in the times of Peter the Great (1672-1725), who reformed the administration of the state in a way unknown before to the Russian people. His reforms touched almost every aspect of Russians' life through the introduction of European styles and traditions which Peter I learned during his yearlong stay in Holland and England. Ever since -then the intellectual movement was divided into two major groups of thinkers - Westernizers and Slavophils. "Westernizers were those who believed that the traditional Russian ways of life could be a bitter handicap, and the sooner Russia caught up with the West the better. The Slavophils, influenced by the German romantics, opposed westernization and idealized Russia's distinctiveness," One of the brightest events of the dissident movement of the 19th century was the Decembrist revolt in December of 1825; when a group of Russian army men tried, without success, to abolish Tsarist rule by refusing the oath of allegiance to a new Tsar, Nicholas I, and forcing him to abdicate. "The Decembrist conspirators were of liberal inclinations, and their background was Russian freemasonry and the Russian army." That revolt can be seen as the first sign of the major revolution to follow and that is why it is important despite its failure. It was the first attempt to change the existing order in the Russian Empire. The revolts after it were also unsuccessful until World War I, which served as a powerful catalyst for deep change.

Q54. A suitable title for the passage could be

Soviet Union and the End of Communism.

Causes of demise of Communism.

The Decembrist Uprising.

Russia and Dissidence.

Q55. Which of the following has not been mentioned as a satellite of the erstwhile USSR in the passage?

Ukraine

Hungary

Bulgaria

Common Content:

Read the passage and answer the following questions:

An organization must feel the need to change if it is to transform itself extensively. Typically, the first people in the organization to sense this need are those who are in continuous contact with the external environment. They could be the company's front-line employees, working in the sales, marketing, or purchase functions. Or they could be senior executives involved in interacting with regulatory authorities.

Whatever their function these people are the harbingers of change. They communicate the message to the top management, either through formal structured meetings or unstructured personal encounters. This is a critical phase. The senior management team has to be convinced of the need to change. Very often, this process of building conviction is fraught with disagreements. Particularly if the people concerned are not open to the signals they receive.

It is easy to ignore the initial signals: most organizations start receiving these at the pre-pain stage when their market shares and profits have not yet fallen. The organization can either opt for the status quo or break out into a rash of activities after its profits start falling - or it can be proactive. An organization that opts for change enters the even more crucial second stage. The first requisite for implementing lasting change is a cross-functional and cross-hierarchical team which is empowered to lead the process of change. The second is that top managers must be prepared to back that team's decisions. Large-scale organizational transformation is not possible without this.

Q56. The 'critical phase', according to the passage, is

noticing change.

bringing about change.

Communicating the message to change.

interacting with the regulatory authorities.

Q57. The first requisite for implementing change is

to give great powers to the top management officials.

to recruit people who are open minded.

to appoint a manager to head the tem.

to find a cross functional and cross hierarchical team.

Q58. According to the passage, the people who sense the need for change in an organization are

front-line employees.

marketing people.

senior executives.

all of the mentioned options

Q59. 'Pre-pain' stage in para 3 refers to the time

when there is no need for change.

when the organization makes profit.

when change becomes inevitable.

when the organization does not suffer any loss.

Q60. The words 'external environment' in the first para refers to

conditions of climate and weather.

customers and others with whom the organization has contacts.

other similar organizations.

competition from abroad.

Section 2 - Pseudocode and Computer Fundamentals

Section Summary

- No. of Questions: 30
- Duration: 30 min

Additional Instructions:

None

Q1. What is meant by a dedicated computer?

Which is used by one person only

Which is assigned one and only one task

Which uses one kind of software

Which is meant for application software

Q2. The task of performing operations like arithmetic and logical operations is called _____

Processing

Program

Sorting

Storing

Q3. _____ are set of rules and procedures to control the data transmission over the internet

Gateway

IP Address

Protocol

Domains

Q4. "MAN" stands for

Maximum Area Network

Minimum Area Network

Main Area Network

Metropolitan Area Network

Q5. _____ is the process of dividing the disk into tracks and sectors

Tracking

Formatting

Crashing

Allotting

Q6. A computer cannot 'boot' if it does not have the

compiler

loader

operating system

assembler

Q7. Junk e-mail is also called ?

spoof

sniffer script

spool

spam

Q8. ----- is a combination of hardware and software that facilitates the sharing of information between computing devices.

network

peripheral

expansion board

digital device

Q9. An integrated circuit (IC), sometimes called a chip or microchip is fabricated with

Resistors

Capacitors

Transistors

All of the mentioned options

Q10. Which of the following is the smallest visual element on a video monitor?

Character

Pixel

Byte

Bit

Q11. What is the function of the motherboard in a computer system?

To provide temporary storage for data and program instructions

To process program instructions

To control input and output devices

To provide a physical framework and connect various components

Q12. A wireless network uses _____ waves to transmit signals.

Mechanical

Radio

Sound

None of the mentioned options

Q13. Which one is not provided by the digital signature?

Privacy

Authentication

Integrity

Non-repudiation

Q14. Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?

CDMA

CSMA/CA

ALOHA

None of the mentioned options

Q15. Which wireless networking standard was the first to use Orthogonal Frequency Division Multiplexing (OFDM) as a coding technique?

802.11 a

802.11 b

802.11 c

802.11 g

Q16. What will be the output of the following pseudocode if n=40 and LIMIT=100 ?

```
1 Integer fun2(Integer n);
2 if(n < +0)
3 return 1;
4 if(n > LIMIT)
5 return 2;
6 Print n
7 fun2(2*n);
8 Print n
9 End function fun2()
```



10 20 20 10

20 40 40 20

40 80 80 40

80 120 120 80

Q17. What will be the output of the following code?

```
1 Class Automobile
2 Private Method drive()
3 Return "Driving vehicle"
4
5 Class Car inherits Automobile
6 Protected Method drive()
7 Return "Driving car"
8
9 Class ElectricCar inherits Car
10 Override Final Method drive()
11 Return "Driving an electric car"
12
13 Method main(wheels)
14 Create final instance of Car as ElectricCar
15 Print car.drive()
```



Driving vehicle

Driving an electric car

Driving car

The code does not compile

Q18. What will be the value of t if a = 56 and b = 876?

```
1 Read a,b  
2 Function mul(a, b)  
3   t = 0  
4   while (b != 0)  
5     t = t + a  
6     b=b-1  
7   End While  
8   return t;  
9 End Function
```

490563

49056

490561

None of the mentioned options

Q19. What will be the output of the following code?

```
1 Function fact(int n)  
2 Integer result;  
3 if n is equal to 1  
4 then return 1;  
5 End if  
6 result = fact(n-1) * n;  
7 return result;  
8 End recursion  
9  
10 class output  
11 Function main  
12 create a recursion object obj;  
13 print obj.fact(1);  
14 End main  
15 End output
```

0

1

undefined

None of the mentioned options

Q20. What will be the output of the following code?

```
1 Class One  
2 Constructor One()  
3   Print "One"
```

```
3     Print One,  
4  
5 Class Two inherits One  
6     Constructor Two()  
7     Print "Two,"  
8  
9 Class Three inherits Two  
10    Constructor Three()  
11    Print "Three"  
12  
13 Class Test  
14 Method main(args)  
15     Create instance of Three
```

Three

One

One,Two,Three

Run-time error

Q21. What is the output for the following pseudocode?

```
1 Class Dog:  
2     Attribute name (String)  
3  
4     Method bark:  
5         Print "Woof!"  
6  
7 Class Test:  
8     Method main:  
9         Declare variable myDog of type Dog  
10        Assign a new Dog object to myDog  
11        Set myDog's name attribute to "Buddy"  
12        Call the bark method on myDog
```

Woof!

Woof!
Buddy

Buddy
Woof!

Buddy

Q22. What is the output for the following code?

```
1 Class Math  
2     Public Final Variable secret = 2  
3  
4 Class ComplexMath inherits Math  
5     Public Final Variable secret = 4  
6  
7 Class InfiniteMath inherits ComplexMath  
8     Public Final Variable secret = 8  
9  
10    Method main(numbers)  
11        Create instance of Math as InfiniteMath  
12        Print math.secret
```

2.0

4.0

8.0

Compile Time Error

Q23. What will be the output of the following pseudocode for x=3 and y=4?

```
1 integer fun(int x, int y)
2 if(x>0)
3   fun(x-1,y+1);
4 End if
5 Print y
6 End function fun() 
```

8 5 4 2

7 6 5 4

2 0 1 4

5 0 3 4

Q24. What is the output for the following pseudocode?

```
1 Class Animal:
2   Attribute name (String)
3
4   Method speak:
5     Print name + " makes a sound."
6
7 Class Main:
8   Method main:
9     Declare variable dog of type Animal
10    Assign a new Animal object to dog
11    Set dog's name attribute to "Dog"
12    Call the speak method on dog 
```

Dog makes a sound.

makes a sound.

Dog

Compile Time Error

Q25. What is the output of the following code?

```
1 Declare integer k = 0;
2 for (k)
3   Print Hello 
```

Compile Time Error

Hello

No output

Runtime Error

Q26. What is the output of this code?

```
1 Declare integer a=10,c  
2 Declare double b=5.6  
3 c=a+b  
4 Print c
```

15

15.6

16

10

Q27. What is the output of the following function for a start point to the first node of the following linked list? 1->2->3->4->5->6

```
1 fun(struct node* start)  
2 if start = Null  
3 return;  
4 print start->data  
5 if start->next != NULL  
6 call fun(start->next->next)  
7 print start->data
```

1 4 6 6 4 1

1 3 5 1 3 5

1 2 3 5

1 3 5 5 3 1

Q28. What will be the output of the following pseudocode?

```
1 Integer a,b,c
```

```
2 set a= 0, b= 5, c=12
3 if (3<c)
4   a= 10 & c
5 end if
6 if ((c - a + b) > (b - c))
7   a= ( a + 6 ) + c
8   c = ( a = a ) & b
9 end if
10 print a + b + c
```

32

40

35

50

Q29. What will be the output of the following pseudocode?

```
1 Integer a,b,c
2 Set a=0
3 for (each b from 0 to 10)
4   a=a+b
5   if (a MOD 4 EQUALS 0)
6     Print "True"
7     Jump out of the loop
8   end if
9 end for
10 Print b
```

0

0

1

True

0

None of the mentioned options

Q30. What will be the output of the following pseudocode?

```
1 Integer p,q,r
2 Set p=1, q=3, r=8
3 p=3^1
4 if((r^3)<8 && (4^6)<r)
5   q=r^q
6 Else
7   p=(p+q)+r
8 End if
9 Print p+q+r
```

30

25

27

Answer Key & Solution

Section 1 - Aptitude

Q1

90

Solution

$$\frac{3}{5} \text{ of } 350 - \frac{4}{7} \text{ of } 210 = 210 - 120 = 90.$$

Q2

96.5

Solution

$$\text{Sum of first five attempts} = 71 * 5 = 355$$

$$\text{Sum of first and third attempt} = 72 * 2 = 144$$

$$\text{Sum of second and fifth attempts} = 75 * 2 = 150$$

$$\text{Fourth number} = 355 - (144 + 150) = 355 - 294 = 61$$

$$\text{Value of Z} = 61 * (3/2) = 91.5$$

$$\text{Value of Y} = 101.5$$

$$\text{Required average} = (91.5 + 101.5)/2 = 96.5$$

Q3

36

Solution

From the given data

$$A + B + C = 150 \dots (1)$$

$$B + C + D = 140 \dots (2)$$

$$C + D + E = 126 \dots (3)$$

$$D + A + E = 106 \dots (4)$$

$$D = 30$$

$$\Rightarrow A = 40, E = 36.$$

Q4

32 km

Solution

Let the Distance be 'X' Km

$$\text{Downstream Speed} (S_D) = 6 + 2 = 8 \text{ Km/hr}$$

Upstream Speed(S_U)= 6-2= 4 Km/hr

$$(X/4) - (X/8) = 4$$

$$(2X - X)/ 8 = 4$$

$$X = 32 \text{ Km}$$

Q5

$$40$$

Solution

2 men or 4 women or 5 children = 38 D

$$\text{So } 1m + 1w + 1c = 38 * 2 * 4 * 5 / (2 * 4 + 4 * 5 + 5 * 2)$$

Q6

$$2618 \text{ m}^2$$

Solution

Circumference = $2\pi r = 352 \text{ m}$

$$R = 352 / 2\pi \text{ m}$$

$$\text{Radius of the road} = (352 / 2\pi + 7) \text{ m}$$

Area of the road = outer area - inner area

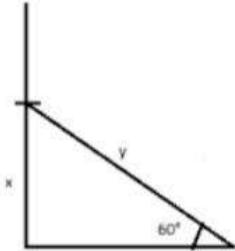
$$= \pi(352 / 2\pi + 7)^2 - \pi(352 / 2\pi)^2$$

Solving, the area of the road is 2618 m^2

Q7

$$8(\sqrt{3}+2) \text{ m}$$

Solution



$$\tan 60^\circ = x/8$$

$$\sqrt{3} = x/8$$

$$x = 8\sqrt{3}$$

$$y \cos 60^\circ = 8/y$$

$$1/2 = 8/y$$

$$y = 16$$

therefore height of the tree = $x+y$

$$= 8\sqrt{3} + 16$$

$$= 8(\sqrt{3}+2)$$

Q8

$$26.28 \text{ km/hr}$$

Solution

No Solution

Q9

2

Solution

$$\begin{aligned} &= \{\log_{13}(10)\} / \{\log_{169}(10)\} \\ &= \log_{13}(10) / \log_{13^2}(10) \quad (\because \log_a b (c) = (1/b) \log_a c) \\ &= \{\log_{13} 10\} / (1/2) \log_{13} 10 \\ &= \{1 / (1/2)\} \\ &= 2 \end{aligned}$$

Q10

-5

Solution

$\log(0.0000134)$.
Since there are four zeros between the decimal point and
the first significant digit, the characteristic is -5

Q11

Positive

Solution

No Solution

Q12

Integers

Solution

In integers, we define divisibility rigorously

Q13

4.04%

Solution

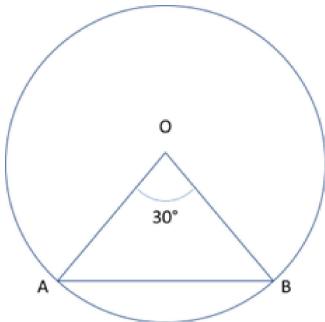
100 cm is read as 102 cm.

$$\begin{aligned} A_1 &= (100 \times 100) \text{ cm}^2 \text{ and } A_2 (102 \times 102) \text{ cm}^2. \\ (A_2 - A_1) &= [(102)^2 - (100)^2] \\ &= (102 + 100) \times (102 - 100) \\ &= 404 \text{ cm}^2. \end{aligned}$$

Percentage error = $(404/100 \times 100) \times 100\% = 4.04\%$

Q14

$$448.8 \text{ cm}^2$$

Solution

As per the question,

$$OA = OB = 12$$

$$\angle AOB = 30^\circ$$

$$\text{Area of the sector OAB} = (\theta/360) \times \pi \times r^2 \quad (\text{Where } r = \text{radius of the circle})$$

$$\Rightarrow \text{Area of the sector OAB} = (30/360) \pi (12)^2$$

$$\Rightarrow \text{Area of the sector OAB} = 12\pi = 37.68$$

$$\text{Area of } \triangle OAB = (1/2) \times r^2 \times \sin\theta$$

$$\Rightarrow \text{Area of } \triangle OAB = (1/2) \times (12)^2 \times \sin(30)$$

$$\Rightarrow \text{Area of } \triangle OAB = (1/2) \times 12 \times 12 \times (1/2) = 36 \text{ sq. cm.}$$

$$\text{Area of minor segment} = \text{Area of sector OAB} - \text{Area of } \triangle OAB$$

$$\Rightarrow \text{Area of minor segment} = 37.68 - 36 = 1.68 \text{ sq. cm.}$$

$$\text{Area of the circle} = \pi r^2 = 3.14 \times 12 \times 12 = 452.16$$

$$\text{Area of major segment} = \text{Area of circle} - \text{Area of minor segment}$$

$$\Rightarrow \text{Area of major segment} = 452.16 - 1.68 = 450.48 \text{ sq. cm}$$

$$\text{Area of Minor segment} = 1.68 \text{ sq. cm.}$$

$$\text{Required difference} = 450.48 - 1.68 = 448.8 \text{ sq. cm.}$$

Q15

cdcdcdcd

Solution

The series is

'cd'cccc'cd'/c'cd'dc'cd'd

Q16

Jhavs

Solution

Assuming Gabe is of Saca tribe, his both statements should be true.

But one of his statements that Ucko is of Saca tribe should be wrong as there is only one Saca tribe person.

Now assume Borris is of Saca tribe. His second statement is obviously true and his first statement indicates that Gabe is of Jhav type which implies that Ucko is of Lobe type.

Now checking of the truthfulness of the statements of Gabe and Ucko, we get Gabe's both the statements are wrong and Ucko's one statements is correct and one is wrong. So Gabe belongs to Jhav tribe.

Q17

Brother-in-law

Solution

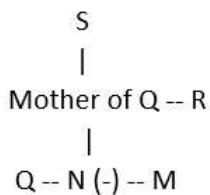
My only sibling's brother is myself. My mother's daughter is my sister and her husband is my brother-in-law.

Q18

Data inadequate

Solution

Male(+), Female(-), Couple(=), Siblings(-), Next Generation (|)



So M is the grandchild of S, but we do not know M's sex, so we cannot say if M is S's daughter's son or daughter's daughter.

Q19

October

Solution

January - 3 odd days

February - 0 odd days (non-leap year)

March - 3 odd days (6)

April - 2 odd days (8)

May - 3 odd days (11)

June - 2 odd days (13)

July - 3 odd days (16)

August - 2 odd days (18)

September - 3 odd days (21) = 0 odd days

Thus October will follow the same calendar as on January in the non leap year.

Q20

MDOLD

Solution

Grouping. So here grouping of letters is done. First 2 letters- M and O are grouped and last 2 letters S and E are grouped. After grouping, +1 is added and the position of the letters is interchanged. Like in MO group, +1 is added so the result will be NP and then the letters are interchanged and so the result for 1st group will be PN. Same for the second group and the middle odd letter is as it is.

Q21

NPPO

Solution

+1 in all the letters.

This is one type of question. In similar way for the same type there can be +2, +3 or there can be -2, -4, etc.

Q22

12

Solution

From the given data, the value of A will be 1 because it is the only carry-over possible from the sum of 2 single-digit number. T maximum it can take only 9 and there should a carryover for T to give sum as 2 digit number. So T = 9, P = 0, A = 1. T + T = 18, the value of E is 8 and 1 will be a carry over to the next column. That is 1 + A + A = L = 3. And finally H = 2. Hence, 819 + 9219 = 10038. A+P+P+L=E = 1+0+0+3+8 = 12.

Q23

31

Solution

Step 1:

Here obviously J = 1 as max carry allowed it

(nothing) + M = 0, i.e. 0 + M = 0 this should have had been M only

It means that there is 1 carry coming from previous step

Also this M + 1 (carry) = 0, is generating 1 carry to next step

This means M + 1 > 10, this is only possible when M = 9

=> 0 = M + 1 = 9 + 0 = 0 (1 carry)

9 A C + 9 A A R ----- 1 0 C K 0

Step 2:

$$C + R = 0$$

Since, this is at units place there can be no carry from previous step

Possible values of (C, R) can be (2, 8), (3,7), (4, 6), (6,4), (7,3), (2,8)

Let's assume, first case C = 2 and R = 8 in that case C + R, will generate 1 carry to next step A + A = K. The new problem looks like this -

$$9 \ A \ 2 + 9 \ A \ A \ 8 ----- 1 \ 0 \ 2 \ K \ 0$$

Step 3:

Thus, A + A + 1 (Carry) = K

Also, 9 + A = 2, this is possible in two ways

If, A = 3 (no carry from previous step) $9 + 3 = 2$ (1 carry to next step)

If, A = 2 (1 carry from the previous step) but C value is already assumed to be 2, so this is not possible thus, A has to be 3

Thus K = 3 + 3 + 1 = 7

All values are fetched and there is no conflict.

$$9 \ 3 \ 2 + 9 \ 3 \ 3 \ 8 ----- 1 \ 0 \ 2 \ 7 \ 0$$

Step 4:

Thus, $3A + 2M + 2C = 3(3) + 2(9) + 2(2) = 9 + 18 + 4 = 31$

Q24

dumbest

Solution

This word is the adjective used to describe the noun, Liku.

Q25

b and d

Solution

The word "slowly" is used to describe the actions "wrote, writes".

Q26

through

Solution

"Through" fits because it shows the method of sending the parcel using a courier service, while the other options don't convey the same idea of using a specific delivery system.

Q27

saw

Solution

The sentence is a conditional statement in the past unreal condition (second conditional).

The correct form is "If I saw you tomorrow," because it refers to an imaginary situation in the present or future.

"Would" is used to express the hypothetical result of the condition.

Q28

as well as

Solution

The correct phrase is "He failed in the examination **as well as** the competition held in the college." This indicates that he failed in both the examination and the competition.

Q29

so

Solution

"So" indicates a cause-and-effect relationship, where wanting to eat sushi led to the decision to go to a Japanese restaurant. The sentence "I wanted to eat sushi for dinner so I went to a Japanese restaurant" correctly conveys this relationship. "But" would introduce a contrast, and "or" would offer an alternative, neither of which fits the intended meaning here.

Q30

Only assumption I is implicit

Solution

Such decisions as given in the statement are taken **only** after taking the existing vacancies into consideration. So, I implicit while II isn't.

Q31

d

Solution

Answer should be the mirror image of 2. Hence d is the answer as it satisfies the conditions for R, G and the arrow.

Q32

if both the statements taken together are not sufficient and more information is required to solve the question.

Solution

Statement (A): $1/x > 1/y$ and $y < 0$ can be true for both $x > 0$ and $x < 0$. Statement (A) alone is not sufficient.

Statement (B): $|x| > |y|$. x can be either positive or negative. Statement (B) alone is not sufficient. We combine statements (A) and (B).

Consider $y < 0$, $|x| > |y|$ and $x < y$ for $x < 0$ and $x > y$ for $x > 0$.

Also $1/x > 1/y$ condition is satisfied for both $x > 0$ and $x < 0$.

So, statements (A) and (B) together are not sufficient.

Hence, the correct answer is Option (4)

Q33

AMMUNITION

Solution

The order of letters of the word is reversed in the code. So, reverse the order of the letters in the code to get the word.

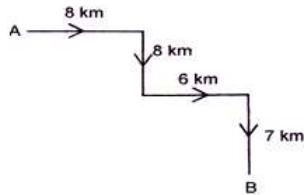
Q34

South

Solution

The path traversed by Salman is as follows.

Let us assume that Salman started his Journey towards East.



Let A be the initial position and B the final position. Finally he is facing towards south i.e. 90° clockwise direction to his starting point.

Finally as he is facing the setting sun i.e., West, he started his journey towards South.

Q35

167

Solution

Ins 1 : 24[Box 7] + 5[Box 6]

Ins 2 : 29[Box 1] * 6[Box 10]

Ins 3 : 174[Box 4] - 7[Box 8]

167[Box 11]

Q36

harmony: dissonance

Solution

The absence of government is called anarchy.

Similarly, there is dissonance if there is no harmony.

Q37

God

Solution

Philanthropist (Phil+Anthrope) is the love for Mankind.

Philotheism (Phil+theism) is the love for God.

Here the prefix Phil denotes love for something.

Q38

God is believed in all over the world by the students

Solution

The 'be' verb that should be used here is : 'is'

Q39

PRINCIPLES

Solution

"Principles" means concepts, ideas or rules.

Principals means the most important or senior person in an organization or group.

Q40

Madhu said that they must go to see the Taj in moonlit night.

Solution

The pronoun we should become they

Present simple tense (V1) becomes Past simple tense (V2).

i.e., may becomes might

Q41

No article, costlier than

Solution

Here the reference is generic and not to a particular piece of platinum metal, hence definite article 'the' is not used. Secondly there is a comparison in the sentence as it can be inferred from 'any other'. The comparative form of 'costly' is 'costlier'. The right answer is "No article, costlier than"

Q42

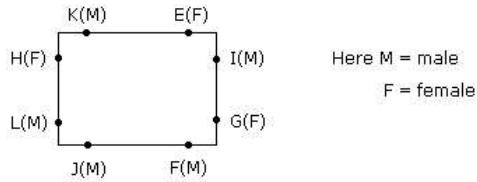
are made to

Solution

Use 'will be' in place of 'are'.

Q43. John

Solution



Here M = male
F = female

J is to the immediate left of F

Q44. John is male, Kim is female

Solution

Step-by-Step Seating Arrangement:

1. **Ford is seated opposite Emile** (since Ford is male and Emile is a female).
2. Let's start by placing Ford and Emile:
 - If Ford is seated at the top side of the square table (position 1), Emile would be seated directly opposite at the bottom side (position 5).
1. **John is between Louis and Ford.**
2. Let's place Ford at position 1. Therefore, John must be at position 2 or 8, but let's continue to see other constraints.
3. **Grant is between Ida and Ford.**
4. Grant can be placed on either side of Ford. This could be position 2 or 4.
5. **Henry, a lady member, is second to the left of John.**
6. This will help us finalize John's position. Since Henry is a lady member and is second to the left of John, this implies John's position should be such that Henry fits the criteria.
7. **There is a lady member between Ford and Ida.**
8. Let's place Ida considering the constraints, and then adjust Grant accordingly.

Arrangement Attempt:

- **Ford at position 1.**
- **Emile at position 5 (opposite Ford).**
- **Grant is between Ida and Ford, so place Grant at position 4, and Ida at position 3.**

Based on the above placement:

John is between Louis and Ford, John should be at position 2.

Henry is second to the left of John (so Henry must be at position 6).

here is a lady member between Ford and Ida; Emile fits this condition.

lacing remaining members:

Louis should be at position 8 since John is between Louis and Ford.

ow, Kim is the only one left. Kim should be at position 7.

Q45. Emile, Henry and Ida

Solution

Step-by-Step Seating Arrangement:

1. **Ford is seated opposite Emile** (since Ford is male and Emile is a female).

2. Let's start by placing Ford and Emile:

- If Ford is seated at the top side of the square table (position 1), Emile would be seated directly opposite at the bottom side (position 5).

1. **John is between Louis and Ford.**

2. Let's place Ford at position 1. Therefore, John must be at position 2 or 8, but let's continue to see other constraints.

3. **Grant is between Ida and Ford.**

4. Grant can be placed on either side of Ford. This could be position 2 or 4.

5. **Henry, a lady member, is second to the left of John.**

6. This will help us finalize John's position. Since Henry is a lady member and is second to the left of John, this implies John's position should be such that Henry fits the criteria.

7. **There is a lady member between Ford and Ida.**

8. Let's place Ida considering the constraints, and then adjust Grant accordingly.

Arrangement Attempt:

- **Ford at position 1.**
- **Emile at position 5 (opposite Ford).**
- **Grant is between Ida and Ford, so place Grant at position 4, and Ida at position 3.**

Based on the above placement:

- If John is between Louis and Ford, John should be at position 2.
- **Henry is second to the left of John (so Henry must be at position 6).**
- **There is a lady member between Ford and Ida; Emile fits this condition.**

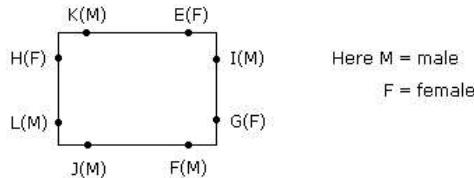
lacing remaining members:

Louis should be at position 8 since John is between Louis and Ford.

ow, Kim is the only one left. Kim should be at position 7.

Q46. F

Solution



F is sitting opposite to E.

Q47. 2

Solution

Step-by-Step Seating Arrangement:

1. **Ford is seated opposite Emile** (since Ford is male and Emile is a female).

2. Let's start by placing Ford and Emile:

- If Ford is seated at the top side of the square table (position 1), Emile would be seated directly opposite at the bottom side (position 5).

1. **John is between Louis and Ford.**

2. Let's place Ford at position 1. Therefore, John must be at position 2 or 8, but let's continue to see other constraints.

3. **Grant is between Ida and Ford.**

4. Grant can be placed on either side of Ford. This could be position 2 or 4.

5. **Henry, a lady member, is second to the left of John.**

6. This will help us finalize John's position. Since Henry is a lady member and is second to the left of John, this implies John's position should be such that Henry fits the criteria.

7. **There is a lady member between Ford and Ida.**

8. Let's place Ida considering the constraints, and then adjust Grant accordingly.

Arrangement Attempt:

- **Ford at position 1.**
- **Emile at position 5 (opposite Ford).**
- **Grant is between Ida and Ford, so place Grant at position 4, and Ida at position 3.**

ased on the above placement:

John is between Louis and Ford, John should be at position 2.

Henry is second to the left of John (so Henry must be at position 6).

here is a lady member between Ford and Ida; Emile fits this condition.

lacing remaining members:

Louis should be at position 8 since John is between Louis and Ford.

ow, Kim is the only one left. Kim should be at position 7.

Q48. Ida

Solution

K is seated between E and H. Step-by-Step Seating Arrangement:

1. **Ford is seated opposite Emile** (since Ford is male and Emile is a female).

2. Let's start by placing Ford and Emile:

- If Ford is seated at the top side of the square table (position 1), Emile would be seated directly opposite at the bottom side (position 5).

1. **John is between Louis and Ford.**

2. Let's place Ford at position 1. Therefore, John must be at position 2 or 8, but let's continue to see other constraints.

3. **Grant is between Ida and Ford.**

4. Grant can be placed on either side of Ford. This could be position 2 or 4.

5. **Henry, a lady member, is second to the left of John.**

6. This will help us finalize John's position. Since Henry is a lady member and is second to the left of John, this implies John's position should be such that Henry fits the criteria.

7. **There is a lady member between Ford and Ida.**

8. Let's place Ida considering the constraints, and then adjust Grant accordingly.

Arrangement Attempt:

- **Ford at position 1.**
- **Emile at position 5 (opposite Ford).**
- **Grant is between Ida and Ford, so place Grant at position 4, and Ida at position 3.**

Based on the above placement:

- If John is between Louis and Ford, John should be at position 2.
- **Henry is second to the left of John (so Henry must be at position 6).**

here is a lady member between Ford and Ida; Emile fits this condition.

lacing remaining members:

Louis should be at position 8 since John is between Louis and Ford.

ow, Kim is the only one left. Kim should be at position 7.

Q49. competing

Solution

competing: The sentence is describing how Indian Professional Service Firms (PSFs) are trying to attract the best and brightest talent. The word "competing" is appropriate here because it suggests that these firms are vying or competing against each other to attract this talent. They are in competition to attract the best individuals.

Q50. themselves

Solution

themselves is alone grammatically correct

Q51. The cow has been genetically altered to be unnaturally large in size.

Solution

There is no suggestion that the second "big" refers to the actual body of the cow. All the other options are possible interpretations since Carter is obviously caught-up with the implications of this event. His excitement, suspicion as well as his investigation of gene tampering are implied through several dialogues in the script. Hence, (a).

Q52. Kenny is a partner to Max and has great personal regard for Max.

Solution

Morrell's statement suggests that it's a waste of time for him to visit this place again.

Jimmy speaks seldom and little at a time. Max sees the need to control Carter's enthusiastic response to Morrell. But though Kenny may be Max's partner, since they are at the back of the truck together, and both seem to report to Jimmy, it is not suggested that

e has a high regard for Max. thus, options (b), (c) and (d) are not suggested in the script.

ence, (a).

Q53. It is a kind of investigative drama, where broader issues are developed in a small-town setting.

Solution

The camera is clearly not passive, since action changes are present throughout, so (a) can be negated. There is no suggestion that these characters are real-life people, as entrances occur with startling dramatic speeches. That rules out (b). Although the script does mention aliens and alien DNA injected into the cows, there is no indication of sinister nature of knowledge, which will pose potential threat to the characters involved. So (c) is eliminated. However, (d) is suggested since the small-town is suggested in Morrell's comments, and an issue is being developed. Hence, (d).

Q54. Russia and Dissidence.

Solution

The whole passage revolves around two topics

- i) How communism view changed across Europe in late 1900s.
- ii) How Russia refused to end communism and its policies.

Hence, the more suitable title would be Russia and Dissidence (refusal of policies)

Q55. Ukraine

Solution

No Solution

Q56. Communicating the message to change.

Solution

The fifth line in the first paragraph renders option "Communicating the message to change." to be correct.

Q57. to find a cross functional and cross hierarchical team.

Solution

ption "to find a cross functional and cross hierarchical team" is the right answer as the
last before line of the last paragraph clearly says the same.

Q58. all of the mentioned options

Solution

Refer to para 1 in which options "front-line employees", "marketing people" & "senior executives" are mentioned. Hence option "All the above" which includes all the three is the right choice.

Q59. when the organization does not suffer any loss.

Solution

This stage refers to the period when the market shares and profits have not yet fallen. This is the first line of the third paragraph. Hence option "when the organization does not suffer any loss" is the right choice.

Q60. customers and others with whom the organization has contacts.

Solution

'External environment' in this context means 'customers and others'. Hence option "customers and others with whom the organization has contacts." is correct.

Section 2 - Pseudocode and Computer Fundamentals

Q1

Which is assigned one and only one task

Solution

No Solution

Q2

Processing

Solution

No Solution

Q3

Protocol

Solution

No Solution

Q4

Metropolitan Area Network

Solution

No Solution

Q5

Formatting

Solution

No Solution

Q6

operating system

Solution

No Solution

Q7

spam

Solution

No Solution

Q8

network

Solution

No Solution

Q9

All of the mentioned options

Solution

No Solution

Q10

Pixel

Solution

No Solution

Q11

To provide a physical framework and connect various components

Solution

No Solution

Q12

Radio

Solution

No Solution

Q13

Privacy

Solution

Since, digital signature user private key for encrypting and as everyone has sender's public key any one can read the data hence, privacy is not fulfilled.

Q14

CSMA/CA

Solution

No Solution

Q15

802.11 a

Solution

No Solution

Q16

40 80 80 40

Solution

First two if condition fails

and print 40

and function executes with $2*40$ and print 80

and print 80 and 40

ANS : 40 80 80 40

Q17

Driving an electric car

Solution

The drive() method in the Car class does not override the version in the Automobile class since the method is not visible to the Car class.

The drive() method in the ElectricCar class is a valid override of the method in the Car class, with the access modifier expanding in the subclass. For these reasons, the code compiles, and Option D is incorrect.

In the main() method, the object created is an ElectricCar, even if it is assigned to a Car reference. Due to polymorphism, the method from the ElectricCar will be invoked, making Option B the correct answer.

Q18

49056

Solution

while performs for 876 times

add t(t=0) with a(a=56) and store it in t for 876 times

and return t

ANS : t = 49056

Q19

1

Solution

fact() function recursively calculates factorial of a number, when value of n reaches 1, base case is excuted and 1 is returned.

ANS : 1

Q20

One,Two,Three

Solution

When we create an object of class Three, the constructors are executed in the following order:

One(): Prints "One".

Two(): Prints "Two".

Three(): Prints "Three".

So, the overall output is "One,Two,Three". The constructors are executed in the order of inheritance hierarchy from the topmost superclass (One) to the subclass (Three).

Q21

Woof!

Solution

No Solution

Q22

2.0

Solution

The code compiles without issue, so Option D is incorrect. Java allows methods to be overridden, but not variables. Therefore, marking them final does not prevent them from being reimplemented in a subclass. Furthermore, polymorphism does not apply in the same way it would to methods as it does to variables.

Q23

7 6 5 4

Solution

It is a Recursive function it calls itself when x>0 with arguments as x-1,y+1.

ANS : 7 6 5 4

Q24

Dog makes a sound.

Solution

No Solution

Q25

Hello

Solution

No Solution

Q26

15

Solution

As c is declared in integer datatype, it takes only interger values, so after addition c becomes 15.

ANS : 15

Q27

1 3 5 5 3 1

Solution

No Solution

Q28

32

Solution

Initialize Variables:

a=0

b=5

c=12

First Condition:

Condition: $3 < c$

This is true since $3 < 12$.

Operation: $a = 10 \& c$

Bitwise AND of 10 and 12:

Binary representation of 10: 1010

Binary representation of 12: 1100

Bitwise AND: 1000 (which is 8)

So, a=8

Second Condition: $(c-a+b) > (b-c)$

Substitute values: $(12-8+5) > (5-12)$

Simplify: $9 > -7$ (which is true)

Operations:

$a = (a+6)+c$

Substitute values: $a = (8+6)+12$

Simplify: $a = 14+12$

So, a=26

$c = (a==a) \& b$

$a == a$ is always true, which is 1

Bitwise AND of 1 and 5:

Binary representation of 1: 0001

Binary representation of 5: 0101

Bitwise AND: 0001 (which is 1)

So, c=1

Print Statement:

Calculate

$a+b+c:$

$a = 26$

$b = 5$

$c = 1$

Sum:

$26+5+1=32$

Therefore, the output of the given pseudocode is 32.

Q29

True

0

Solution

No Solution

Q30

25

Solution

No Solution