

Quant 20 Questions

Q1. Milk and water in two vessels A and B are in the ratios 4:3 and 2:3 respectively. In what ratio the liquids in both the vessels should be mixed to obtain a new mixture in vessel C, only five maintaining half milk and half water.

- A.1:1
- B.7:5
- C.2:4
- D.1:3

Q2. There are six tickets to the theater, four of which are for seats in the front row. 3 tickets are selected at random. What is the probability that two of them are for the front row?

- A.0.6
- B.0.7
- C.0.9
- D.1/3

Q3. When 75% of a number is added to 75, the result is same as the number. The number is-

- A.150
- B.300
- C.100
- D.450

Q4. If five spiders can catch five flies in 5 minutes. How many flies can hundred spiders catch in 100 minutes?

- A.100
- B.1000
- C.500
- D.2000

Q5. The value is? $5^{1/4} \times (125)^{0.25}$

- A.5
- B.25
- C.50
- D.10

Q6. The average of five consecutive numbers is n. if the next two numbers are also included then the average will-

- B.increase by one
- C.increase by 1.4
- D.increase by 2

Q7. When a heap of pebbles are grouped in 32, 40 or 72 it is left with the remainders of 10,18 or 50 respectively. What is the minimum number of pebbles that the heap contains?

- A.1416
- B.1418
- C.1412
- D.1420

Q8.Symbiosis runs a corporate training programme. At the end of running the first programme its total takings were Rs. 38950. There were more than 45 but less than 100 participants. What was the participants fee the programme?

- A.Rs. 410
- B.Rs. 450
- C.Rs. 500
- D.. Rs. 510

Q9. Three friends had a dinner at the restaurant. When the bill was received by amit paid $\frac{2}{3}$ as much as veena paid and veena paid $\frac{1}{2}$ as much as tanya paid. What fraction of the bill did veena pay?

- A.1/3
- B.3/11
- C.12/31
- D.5/8

Q10. Starting from his house one day, a student walks with a speed of $2\frac{1}{2}$ kmph And reaches his school 6 minutes late. Next day he increases his speed by 1KMPH and reaches his school six minutes early. How far is the school from the house?

- A.1 $\frac{1}{2}$ km
- B.1 $\frac{1}{2}$
- A.remain the same

C.1³
D.2 Km

-

Q11. The number of students studying physics chemistry and zoology in a college were in the ratios of 4:3:5 respectively. If the number in these three disciplines increased by 50% 25% and 10% respectively, in the next year, then what was the new respective ratio?

- A. 24:15:22
- B. 18:11:13
- C. 24:13:17
- D. CANNOT BE DETERMINED.

Q12. A, B and C, a startup business, each investing rs. 20,000. After five months, A withdraw 5000. B rupees 4000 and C invested rupees 6000 more. At the end of the year, a total profit of rs 69900 was recorded. What is the share of B?

- A. Rs 20500
- B. Rs 21200
- C. Rs 28200
- D. Rs 27300

Q13. A difference between two numbers is 1365. when larger number is divided by the smaller one, the quotient is 6, and the remainder is 15. What is the smaller number?

- A. 240
- B. 360
- C. 270
- D. 295

Question 14. Given questions below is followed by three statements. Study the questions and statements, identify which option is necessary to answer the question.

What is the principal sum?

- I. The interest amount after 30 months is half the interest amount after five years.
- II. The sum amounts to rs 750 in a five years at simple interest rate.
- III. The rate of interest is 8% p.a.

- A. One and three only.
- B. Two and three only.

- C. One and two only.
- D. One and three only or two and three only.

Q15. A man purchased 40 fruits; apples and oranges for rupees 17. Had He purchased as many oranges as apples and as many apples as oranges. He would have paid rupees 15. find the cost of one pair of an Apple and an orange.

- A. 70 paise
- B. 60 paise
- C. 80 paise
- D. 1 rupee

Q16. If $n = 1+X$. Where X is the product of four consecutive positive integers, then which of the following is/are true?

- 1. n is odd
- 2. n is prime
- 3. n is a perfect square.

- A. 1 and 3 only
- B. 1 and 2 only
- C. 1 only
- D. none of these

Q17. A rainy day occurs once in every 10 days Half of the rainy days produce rainbows. What percent of all the days do not produce rainbow?

- A. 95%
- B. 10%
- C. 50%
- D. 5%

Q18. Inside a triangular park, there is a flower bed, forming a similar triangle. around the flower bed runs a uniform path of such a width that the sides of the park are exactly double the corresponding sides of the flower bed. The ratio of areas of the path to the flower bed is:

- A. 1:1
- B. 1:2
- C. 1:3
- D. 3:1

Q19. Area of a square natural lake is 50SQ kms. A diver wishing to cross the lake diagonally will have to swim a distance of-

- A. 10 miles
- B. 12 miles
- C. 15 miles
- D. None of the above.

Q20. A ladder is lying against a wall which is 5 meters high. If the ladder slips 2 meters away from the wall, the top of the ladder touches the foot of the wall, the length of the ladder is.

- A. 5m
- B. 5.25m
- C. 7.75m
- D. 4m.

Verbal 15 Questions

Q21. Virtuoso means?

- A. Skilled performer.
- B. Amateur.
- C. Good person.
- D. Professional.

Q22. Hierarchy: ranked

- A. Equation:solved
- B. Critique:biased
- C. Chronology:sequential
- D. Infinity:fixed

Q23. She ordered the taxi driver, driver faster, _____?

- A. Won't you
- B. Will you
- C. You must
- D. Can't you.

Q24. Her written statements failed to be consistent _____ What she said earlier.

- A. On
- B. With
- C. In
- D. To

Q25. Choose the correct alternative that best explains the following idiom. Writing on the wall.

- A. Graffiti
- B. Obvious truth
- C. Foreboding
- D. Prediction

Q26. Although many of the members were _____ About them pending deal others were _____ About the benefits it would bring.

- A. Euphoric.....confident
- B. Optimistic.....dubious
- C. Angry.....skeptical
- D. Confused.....pleased

Q27. Select the letter pair that best expresses a relationship similar to that expressed by the original pair. BOOK:RIVER

- A. Vein:artery
- B. Path:highway
- C. Yard:alley
- D. Pen:paper

Q28. 'But for cancer, I would not have given up his smoking'. 'But' in the sentence, is-

- A. An adverb
- B. A preposition
- C. An adjective
- D. A verb

Q29. For the following sentences choose the correct option.

- I. The team quickly took their positions on the field.
 - II. The team quickly took its position on the field.
- A. The first sentence is wrong.
 - B. The second sentence is wrong.
 - C. Both are correct.
 - D. Both are wrong.

Q30. Choose the erroneous underlying segment or option D if no error.

He carried his clothes (a) in a black heavy. (b) steel trunk (c)

- A. A
- B. B
- C. C
- D. D

Q31. Choose the erroneous underlying segment or option D if no error.

The corpse (a) had been dead (b) for five days (c)

- A. A
- B. B
- C. C
- D. D

Q32. Identify the odd one-

- A. Ashoka was one of the greatest kings

- B. Ashoka was greater than many other kings.

- C. Ashoka was the greatest king.

- D. Very few kings were as great as Ashoka.

Q33. Identify the sentence that gives the same meaning as the following.

He said 'yes, I'll come and see you.'

- A. He accepted that he will come and see me.

- B. He said that he will come and see me.

- C. He agreed that he will come and see me.

- D. He said that he would come and see me.

INSTRUCTIONS- Choose one option to fill in the blanks in the following sentences.

Option A, a.

option B. an

Option C.the

Option D. none.

Q34. I had met him _____year ago.

- A. A

- B. B

- C. C

- D. D

Q35.he is _____honorable man.

- A. A

- B. B

- C. C

- D. D

Logic 25 Questions

Directions 36-37: Study the following arrangement carefully and answer the questions given beside.

6 7 8 9 9 8 7 9 7 7 8 9 7 8 7 6 9 6 8 9 7 7 9 8 9 7 6 6 8 7

36) How many such digits are there in the given series each of which when subtracted from the following digit, gives 1 as resultant?

- A. Three
- B. Four
- C. None
- D. More than four

37) Which of the following numbers will be obtained when the 18th number from the right end is added to the 19th number from the left end of the series?

- A. 17
- B. 15
- C. 16
- D. 18

Directions 38 - 40: Each of the following 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 question:

- A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. if the data either in statement I alone or in statement II alone is sufficient to answer the question.
- D. If the data in both statement I and II together are not sufficient to answer the question.

38. Eight persons are standing in two parallel rows, such that four persons stand in row-X facing north and four stand in another row i.e. row-Y facing south. In this way, person in one row faces the person of other row. Who faces C?

Statement I : A is second to the right of B, who is an immediate neighbor of D. E stands in row-Y and faces G, who is immediate left of H. C is on the immediate right of the one who faces A.

Statement II : F stands at the left end in row-Y. A is facing I, who is second to the left of E. A stands in row-X. C and F are the immediate neighbors of I.

39. Point Z is in which direction from Point B? Statement I : Point X is towards 15m south of Point Y. Point Z is towards 5m west of Point X, which is 13m south-east of Point B.

Statement II : Point B is 6m west of Point X. Point Y is 12m east of Point Z, which is 8m to the north of Point X.

40. Find the code for "drive"?

Statement I : 'slow move road' is coded as 'ge hu ba' and 'traffic rules drive' is coded as 'to la se'.

Statement II : 'road rules follow' is coded as 'hu ve la' and 'slow traffic change' is coded as 'to ba nu'.

Directions (41-42):study the following information carefully and answer the below questions

Twelve persons are sitting in a parallel row and opposite to each other. In row 1-L,M,N,O,P and Q face the south. In row 2-A,B,C,D,E and F face the north but not necessarily in the same order.

L sits opposite to the one who sits second to the left of F. only two persons sits between B and F. B sits to the left of F. the number of persons sits to the left of L is the same as the number of persons sits right to the P. N sits second to the right of P. A sits immediate left

of D, none of them sits at the end of the row. C sits opposite to the one who sits second to the left of Q. O and P are not immediate neighbours.

Q41) what is the position of Q with respect to L?

- a) immediate left
- b) immediate right
- c) second to the right
- d) second to the left

Q42) who among the following pair of persons are sitting next to each other?

I.OB

II.PE

III.LD

IV.MF

- a) only II and III
- b) only I and II
- c) only III and IV
- d) only I and III

Directions(43-47)- study the following statements and decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

43) Statements :

- All myntra is Ajio.
- Some ajio is flipkart
- Only a few flipkart is amazon
- No amazon is lenskart

Conclusions:

- I) some flipkart is not lenskart
 - II) all ajio is lenskart is a possibility
- A. Only conclusion I is followed
 - B. Both conclusions I and II followed
 - C. Neither conclusion I and II is followed
 - D. Only conclusion II follows

44) statements:

- Some planets are earth
- Only a few earth is sun
- Only sun is galaxy
- No sun is milkyway

Conclusions-

- I. some earth is not milkyway
 - II. some galaxy is planet is a possibility
- A. Only conclusion I is followed
 - B. Both conclusions I and II followed
 - C. Neither conclusion I and II is followed
 - D. Only conclusion II follows

45) statements-

- Some science is not maths.
- All maths is physics.
- Only a few physics is chemistry.
- Some chemistry is statistics.

Conclusions-

- I. some maths is chemistry.
 - II. all statistics is science is a possibility.
- A. Only conclusion I is followed
 - B. Both conclusions I and II followed
 - C. Neither conclusion I and II is followed
 - D. Only conclusion II follows

46) statements-

- No gold is bronze.
- Only a few bronzes are silver.
- All silvers are copper.
- Some coppers are diamond.

Conclusions-

- I. all golds are diamond.
 - II. some diamonds are not gold.
- A. Only conclusion I is followed
 - B. Both conclusions I and II followed
 - C. Neither conclusion I and II is followed
 - D. Either conclusion I or II follows

47) statements-

- All boats are stream.
- No stream is a cruise.
- Some cruises are captain.
- Some captains are not pilots.

Conclusions-

- I. all pilots can be cruise.
 - II. no boat is captain.
- A. Only conclusion I is followed
 - B. Both conclusions I and II followed
 - C. Neither conclusion I and II is followed
 - D. Only conclusion II follows

Direction(48-50)- study the following information carefully and answer the following below questions-

In a certain code language

'judo golf cycling rugby fencing'

Means '32 48 96 82 95'

'soccer rugby pool hockey karate'

Means '63 67 09 51 48'

'curling archery soccer fencing golf'

Means '19 32 82 25 63'

'fencing pool soccer cricket judo'

Means '95 51 63 28 32'.

Q48) which of the following may be the code for "golf cricket " in the given code language?

- A.67 32
- B.82 48
- C.82 28
- D.96 51

Q49) which of the following is the code for 'judo cycling rugby' in the given language?

- A.82 48 25
- B.82 96 51
- C.32 48 19
- D.95 96 48

Q50) what does the code "09" stands in the given language?

- A.pool
- B.either E or C
- C.karate
- D.soccer

Q51. A man has a job, which requires him to work eight straight days and rest on the 9th day. If he started work on a Monday, the 12th time he rest will be on what day of the week?

- A. Sunday
- B. Wednesday
- C. Tuesday
- D. Friday

Q52. How many minutes before 12 noon is it when it is 27 minutes past 10:00 AM?

- A. 30
- B. 93
- C. 49
- D. 94

Q53. A, B, C, D, E, F and G, are the members of a family consisting of four adults and three children, two of whom F and G are girls, A and D, are brothers, and A is a doctor E is an engineer, married to 1 of the brothers and has two children B is married to D, and G is their child, who is C.

- A. G's father
- B. F'father
- C. E's daughter
- D. A's son.

INSTRUCTIONS- Read the following information carefully and then answer the questions given below.

P#Q Means P is father of Q.

P+Q Means P is mother of Q.

P-Q Means P is the brother of Q.

P*Q Means B is the sister of Q.

Q54. If A+B # C-D then A is D's-

- A. Sister.
- B. Grandfather.
- C. Grandmother.
- D. Father.

Q55. Which of the following shows that a is the aunt of E.

- A. $A - B + C \# D * E.$
- B. $A * B \# C * D - E.$
- C. $A \# B * C + D - E.$
- D. $A + B - C * D \# E.$

INSTRUCTIONS- During their school Silver Jubilee Reunion, four alumini were discussing their starting annual salaries back in 1981. The salaries in question were rupees 40,50,60 and 70 thousand per year. Of course, the present Md of our private company earned the most. Arvind earned more than biswajit, and the doctor earned more than druv the engineer. Chinamay could not remember what he

started on Biswajit, the lawyer did not start on 50,000 nor did dhruv.

Q56. What was the lawyers starting salary?

- A. 40,000.
- B. 50,000
- C. 60,000
- D. 70,000

Q57. Who received the highest starting salary?

- A. Arvind.
- B. Biswajit.
- C. Chinmay
- D. dhruv.

Q58. Find the missing number in the series below. 24,28 ,30 ,34,.....

- A. 40
- B. 38
- C. 35
- D. 36

Q59. For the assertion, A and the reason R given below. Choose the correct alternative from the following.

A- Copper is used to make elected wires.

B- Copper has very low electric resistance.

- A. A is true R is false.
- B. A is False R is true.
- C. Both A and R are true and R is not the correct explanation of A.
- D. Both A and R are true And R is the correct explanation of A.

Q60. Pointing at Ankit Shruti said 'his father is the only son of my grandfather.' How is Ankit related to Shruti?

- A. Sister.
- B. Daughter.
- C. Mother.
- D. Brother.

Answers-

- Quants(1-20)
- English(21-35)
- Logical reasoning(36-60)

1. option B

The fraction of milk in A is equal to $4/(4+3)=4/7$

Fraction of milk in B = $2/(2+3)=2/5$

Let them mix in a ratio X ratio y. Such that their fraction is $\frac{1}{2}$.

It can be written as –

$$\frac{4x}{7} + \frac{2y}{5} = \frac{x+y}{2}$$

$$\frac{4x}{7} - \frac{x}{2} = \frac{y}{2} - \frac{2y}{5}$$

$$\frac{x}{y} = \frac{7}{5}$$

Required ratio is 7:5.

2.(A).

Out of all the six tickets, four are from the front row tickets, and the rest two are not out of forefront tickets. Two can be selected in ${}^4C^2$.

The remaining one ticket has to be selected in ${}^2C^1$ hence. Total ways of selecting three tickets such that two of them are front row are $4C2 * 2C1$

3 out of 6 tickets can be selected in 6C3 ways.

Required possibility = $4C2 * 2C1 / 6C3 = 0.6$

3.(B). let the no. be x.as per question

$$\frac{75x}{100} + 75 = x$$

$$\frac{3x}{4} + 75 = x$$

$$x/4=75$$

$$x=4*75=300.$$

4.(d)2000

Explanation- The rate at which spiders catch the flights remains the same, hence multiplying the time frame and the number of spiders relative to the information provided gives the solution. Distributing five spiders as a group. There are 20 groups, and each group catches five spiders in five minutes. And hence, 100 spiders are caught in five minutes. And in 100 minutes=

$$100*(100)/5=2000 \text{ flies}$$

$$\frac{M1.D1}{W1} = \frac{M2.D2}{W2}$$

$$W=2000.$$

5.(A).5

$$5^{\frac{1}{4}} * 125^{0.25}$$

$$5^{0.25} + 5^{3*0.25}$$

$$5^{0.25} + 0.75 = 5^1 = 5.$$

6.(B). increase by one.

Average of 5 consecutive numbers = $(n)+(n+1)+(n+2)+(n+3)+(n+4)/5 = n+2$

If 2 more consecutive number are added then its average =

$(n)+(n+1)+(n+2)+(n+3)+(n+4)+(n+5)+(n+6)/7 = n+3.$, hence average is increase by 1.

7.(B). 1418

Family of numbers when divided by A, B and C leaves remainders X, Y, Z, respectively, such that a – X is equal to B - Y is equal to C - Z is equal to V are of the form. $N = K * \text{LCM}(ABC) - V$.

Which is 1418.

8.(A) rs 410.

Total taking is equal to number of participants multiply by cost per participant.

$$38950 = 2 * 5^2 * 19 * 41$$

Hence, 95 is the only factor. of 38950 which lies between 40 five to hundred. Hence, 95 is the number of participants. Cost per participant is equal to $38950 / 95$ is equal to 410.

9.(B) 3/11

Let the amount Tania paid be 6x

Amount paid by Veena is 3x

Then Amita paid by $2X=3x/6x+3X+2x=3/11$.

10.(C)

Assume the distance to be X kilometer when he travels at the speed of 2.5 kilometer per hour. He is six minutes late.

When he travels at the speed of 3.5 kilometer per hour, he is six minutes early.

$$\frac{x}{2.5} - \frac{x}{3.5} = 12/60$$

$$2x/5 - 2x=1/5$$

$$4x/35=1/5$$

$$x=7/4=1\frac{3}{4} \text{ km.}$$

11.A

Let the number of students in physics chemistry and zoology be $4X$, $3X$ and $5X$ respectively,

New number of physics student = $4x \cdot (1 + 50/100) = 6x$

New number of chemistry student = $3x \cdot (1 + 25/100) = 15x/4$

New number of zoology student = $5x \cdot (1 + 10/100) = 11x/2$

Required ratio is $6:15/4:11/2$

Multiplying all by 4 = $24:15:22$.

Q12.(B) The profit fraction will be divided based on the amount spent at the investment time. The investments are

$$A - (20000 \cdot 5) + (15000 \cdot 7) = 205000$$

$$B - (20000 \cdot 5) + (16000 \cdot 7) = 212000$$

$$C - (20000 \cdot 5) + (26000 \cdot 7) = 282000$$

Profit share of B = $212000 / (205000 + 212000 + 282000) = 212/699$

Share of ab = $69900 \cdot 212/699 = 21200$.

Q13.(C) Let the smaller number be denoted by x .

The bigger number can be $6x$ the bigger number can be $6x + 15$

Bigger number - smaller number = $(6x + 15) - x$
 $5x + 15 = 1365$

$$5x = 1350$$

$$x = 270$$

Q14.(B) $A = P(1 + TR/100)$

From 2 and 3, $A = 750$, $T = 5$ and $R = 8$

In the above equation.

Q15. 80 paise.

Let us assume the number of apples purchased by the man to be x .

Then, the number of oranges will be $(40 - x)$.

Let the price of each apple be Rs. y and that of an orange be Rs. z .

It is given that, $xy + (40 - x)z = 17$.

$$\Rightarrow xy + 40z - xz = 17 \text{ ----- (1)}$$

Now, if the number of apples and oranges are interchanged, the apples will be $(40 - x)$ and the oranges will be x .

Given, the new total cost will be Rs. 15

$$\text{So, } (40 - x)y + xz = 15$$

$$\Rightarrow 40y - xy + xz = 15 \text{ ----- (2)}$$

Adding eqns 1 and 2, we get,

$$xy + 40z - xz + 40y - xy + xz = 15 + 17$$

$$\Rightarrow 40(y + z) = 32$$

$$\Rightarrow y + z = \frac{32}{40} = \frac{4}{5}$$

Or, the cost of one apple and one orange, $x + y =$
 $\text{Rs. } \frac{4}{5} = 80 \text{ paise}$

Q16.

Let's assume x to be product of a , $a + 1$, $a + 2$, and $a + 3$

Hence, $x = a(a + 1)(a + 2)(a + 3)$

$$n = a(a + 1)(a + 2)(a + 3) + 1$$

$$n = a(a + 3)(a + 1)(a + 2) + 1$$

$$n = (a^2 + 3a)(a^2 + 3a + 2) + 1$$

Let's assume $a^2 + 3 = p$

$$n = p(p + 2) + 1$$

$$n = p^2 + 2p + 1$$

$$n = (p + 1)^2$$

Hence, we can say that n is a perfect square.

Hence, 3 is true and 2 is automatically false as perfect squares can't be prime.

Product of any 4 consecutive integers is always even, as one of the numbers among the 4 consecutive integers will be even and any number multiplied by an even number is even. x is even, hence $x + 1$ is odd. thus n is odd.

Hence both 1 and 3 are true.

Q17.

Let total number of days = $20x$

Number of rainy days = $2x$

Number of rainbow days = x

Number of non rainbow days = $19x$

$$\therefore \text{Percentage of non rainbow days} = \frac{19x}{20x} \cdot 100 = 95$$

Q18.

Lets assume the park is an equilateral triangle with side ' $2x$ ' units, \Rightarrow the side of the flower bed = ' x ' units

$$\text{Area of park} = \frac{\sqrt{3}}{4} \cdot (2x)^2 = \frac{\sqrt{3}}{4} \cdot 4x^2$$

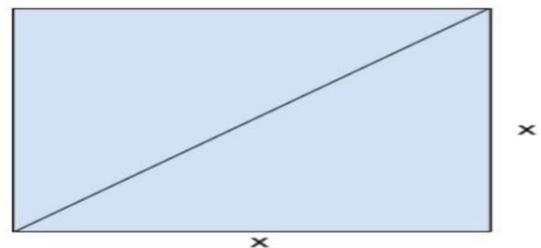
$$\text{Area of flower bed} = \frac{\sqrt{3}}{4} \cdot x^2$$

$$\text{Area of path} = \text{area of park} - \text{area of flower bed} = \frac{\sqrt{3}}{4} \cdot 3x^2$$

$$\text{Ratio of area of path to area of flower bed} = \frac{(\frac{\sqrt{3}}{4} \cdot 3x^2)}{(\frac{\sqrt{3}}{4} x^2)} = 3:1$$

Q19.

Let the side of the square lake be of length x kms.



Using pythagorus theorem, we can find the length of the diagonal as $\sqrt{x^2 + x^2} = \sqrt{2x^2} = x\sqrt{2}$

\therefore Area of the square = 50 sq. kms.

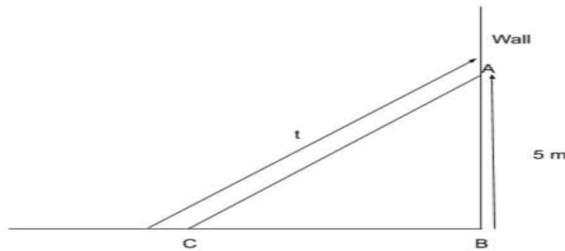
$$x^2 = 50 \text{ or } x = 5\sqrt{2}$$

$$\text{Therefore length of the diagonal} = 5\sqrt{2} \cdot \sqrt{2} = 5 \cdot 2 = 10 \text{ km}$$

Q20.

Let us draw the diagram of the ladder against the wall as given in the question.

Let the length of the ladder be t metres.



We can find BC, i.e. the distance of the ladder from the foot of the wall using Pythagoras theorem

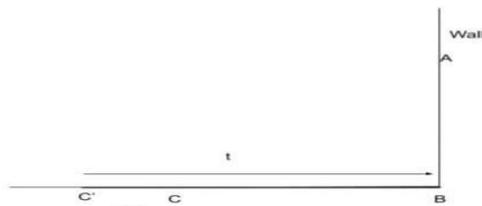
$$BC^2 = t^2 - 5^2$$

$$\Rightarrow BC^2 = t^2 - 25$$

$$\Rightarrow BC = \sqrt{t^2 - 25}$$

Now, when the ladder slips 2 m away from the wall, the ladder lies on the ground completely.

This can be depicted as:



Now, $BC + BC' = t$

$$\Rightarrow \sqrt{t^2 - 25} + 2 = t$$

$$\Rightarrow \sqrt{t^2 - 25} = t - 2$$

Squaring both sides,

$$t^2 - 25 = (t - 2)^2$$

$$\Rightarrow t^2 - 25 = (t^2 - 4t + 4)$$

$$\Rightarrow 4t = 29. \text{ And so, } t = 7.25$$

Q21.(A) Virtuoso refers to a person highly skilled in a music or another artistic pursuit.

Q22.(C) Hierarchy is the order of ranking of entity. Among the options only chronology (sequencing of entities) has the same relation.

Q23.(D) The sentence is in the past tense. Thus, option A and B can be ruled out, since it is a question tag option C can also be ruled out. Hence the answer is option d.

Q24.(B) The preposition used with consistent is always with hence the option is b.

Q25.(B) The idiom writing on the wall means there are clear signs of something happening. Thus, the answer is option b.

Q26.(B) The use of Aldo indicates that the blanks will have the term contradictory to each other, thus among the options only B is the choice for answer.

Q27.(B) "Brook" refers to a small stream that is a smaller version of a river among the options only path:highway represents a similar relationship as the answer is option B.

Q28.(B) In the given sentence, 'but' is used as a proposition, as it shows the relationship between cancer and smoking. Adverbs and adjectives are used to indicate the qualities of verbs and nouns. A verb is used to indicate action. Hence, the answer is option B.

Q29.(A) A team is a singular entity. Thus, the plural usage 'positions' is wrong in statement I.

statement 2 is grammatically correct, hence the correct option is a.

Q30.(B) Segment (b) should have been "heavy black", hence the option is b.

Q31.(B) A "corpse" refers to a dead body, thus saying that it "had been dead" indicates that it was alive at some point, which is incorrect. A corpse is always dead, thus erroneous section is B. Hence the answer is option B.

Q32.(C) In option A, B and D, Ashoka is being compared to other kings and is called one of the greats. Whereas in option C, Ashoka is called the "greatest" king. Thus there is no comparison. Hence the answer is option C.

Q33.(D) The indirect speech of the given sentence is "he said that he would come and see me". The auxiliary verb should be in the past tense in an indirect speech. Hence, the answer is option D.

Q34.(A) Here, the article used will be "a", as "an" is used only front of the words, starting with vowel sounds, hence the answer is option A.

Q35.(B) Since honorable starts with a vowel sound, the article used will be an hence the correct option is B.

Q36. Correct Option: D

The given series:

6 7 8 9 9 8 7 9 7 7 8 9 7 8 7 6 9 6 8 9 7 7 9 8 9 7 6 6 8 7

Here, we can see that there are seven such digits in the given series each of which when subtracted from the following digit, gives 1 as resultant. Hence, the correct answer is option D.

Q37 Correct Option: B

The given series:

6 7 8 9 9 8 7 9 7 7 8 9 7 8 7 6 9 6 8 9 7 7 9 8 9 7 6 6 8 7

The 18th number from the right end = 7

The 19th number from the left end = 8

Now, we get:

$7 + 8 = 15$. Hence, the correct answer is option B.

38. Correct Option: A

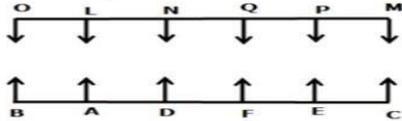
39. Correct Option: C

40. Correct Option: E

Q41.(D)

Q42. (B)

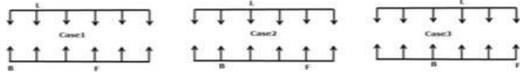
Final Arrangement



We have,

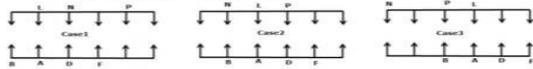
- L sits opposite to the one who sits second to the left of F.
- Only two persons sit between B and F.
- B sits to the left of F.

From the above condition, there are three possibilities.



Again we have,

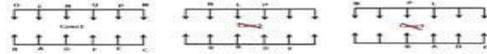
- The number of persons sit to the left of L is the same as the number of persons sits to the right of P.
- N sits second to the right of P.
- A sits immediate left of D, none of them sits at end of the row.



Again we have,

- C sits opposite to the one who sits second to the left of Q.
- O and P are not immediate neighbours.

From the above condition, case2 and case3 get eliminated. Case1 shows the final arrangement.



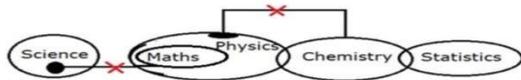
Q43. **Answer: B**



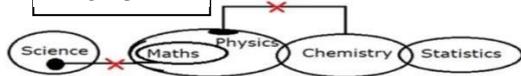
Q44. **Answer: A**



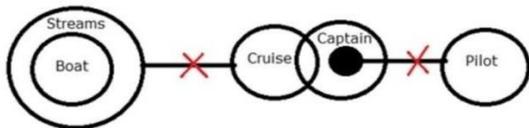
Q45. **Answer: D**



Q46. **Answer: D**



Q47. **Answer: A**



Directions (08-10)

Judo	95	Fencing	32
Golf	82	Soccer	63
Cricket	28	Cycling	96
Pool	51	Rugby	48
Hockey/Karate	09/67	Curling/Archery	19/25

Q48. **Answer: C**

Q49. **Answer: D**

Q50. **Answer: B**

Q51.()

For the man to take 12th time rest he has to work for $(12 \times 8) = 96$ days and have rest for 11 days

Total days lapsed will be $96+11 = 107$ and hence the 12th rest day is 108th day.

Day 1 is monday. After this Day 8 will be Monday. In general $(7k + 1)^{th}$ day is Monday

Therefore 106th day is Monday. 108th day or 12th rest day will be Wednesday

Q52.(B) let x be the minutes required time.

Then 12 noon – 10:27 am = x

X= 1 hour 33 minutes= 93 minutes.

Q53.()

It is given that B is married to D and their child is G. Also, E is married to the one of the 2 brothers A and D. As D is married to B, E is obviously married to A. That leaves us with F and C. It is also said that E has two children. So, we can clearly infer that the 2 children are F and C.

Now, it is given that there are 3 children of whom only 2 are girls i.e. F and G. This means sex of C is male.

C is A and E's son.

Q54.()

From the given relation, we can understand that A is the mother of B, who is the father of C, who is the brother of D.

This makes A the grandmother of D.

Q55.()

Let's go option by option:

- 1) Option 1 says A is the brother of B and this makes A a male. So he cannot be E's aunt.
- 2) Option 2 says A is the sister of B, who is the father of C, who is the sister of D, who is the brother of E.

This makes A aunt of E.

3) Option 3 says A is the father of B which makes him a male. Thus he cannot be the aunt of E.

4) Option 4 says A is the mother of B, is the brother of C, who is the sister of D, who is the father of E.

This makes A the grandmother of E.

Q56.()

It is given that

- i) Current MD remembers that he earned the most(70,000)
 - ii) Biswajit and Dhruv did not start on 50,000
 - iii) Chinmay does not remember what he started on. (It implies Chinmay was not earning 70,000).
- The following things are known

Person	~Biswajit, ~Dhruv	~Chinmay
Occupation		MD
Salary	40,000	70,000

We know that Biswajit's profession is Lawyer and Dhruv is an Engineer. From above table we observe that Chinmay is not MD. Thus Arvind is the MD and Chinmay is Doctor

Since neither Biswajit nor Dhruv started their salary at 50,000, Chinmay starting salary was 50,000

Person	Chinmay	Arvind
Occupation	Doctor	MD
Salary	50,000	70,000

Given Arvind's Salary > Biswajit's Salary and Doctor's Salary > Dhruv's Salary. We obtain the following

Person	Dhruv	Chinmay	Biswajit	Arvind
Occupation	Engineer	Doctor	Lawyer	MD
Salary	40,000	50,000	60,000	70,000

The lawyer's starting salary was Rs 60,000

Q57.(A)

It is given that

- i) Current MD remembers that he earned the most(70,000)
 - ii) Biswajit and Dhruv did not start on 50,000
 - iii) Chinmay does not remember what he started on. (It implies Chinmay was not earning 70,000).
- The following things are known

Person	~Biswajit, ~Dhruv	~Chinmay
Occupation		MD
Salary	40,000	70,000

We know that Biswajit's profession is Lawyer and Dhruv is an Engineer. From above table we observe that Chinmay is not MD. Thus Arvind is the MD and Chinmay is Doctor

Since neither Biswajit nor Dhruv started their salary at 50,000, Chinmay starting salary was 50,000

Person	Chinmay	Arvind
Occupation	Doctor	MD
Salary	50,000	70,000

Given Arvind's Salary > Biswajit's Salary and Doctor's Salary > Dhruv's Salary. We obtain the following

Person	Dhruv	Chinmay	Biswajit	Arvind
Occupation	Engineer	Doctor	Lawyer	MD
Salary	40,000	50,000	60,000	70,000

Arvind received the highest salary

Q58.(D)

The pattern followed is that '4' and '2' are alternatively added.

$$24 + 4 = 28$$

$$28 + 2 = 30$$

$$30 + 4 = 34$$

$$34 + 2 = 36$$

$$\Rightarrow \text{Ans} - (D)$$

Q59.(D)

It is a known fact that Copper has a very low electric resistance, and that's why it is used to make electric wires.

Thus, R is the correct explanation of A.

$$\Rightarrow \text{Ans} - (D)$$

Q60.(D)

Only son of her grandfather = Shruti's father

Now, Ankit's father is also Shruti's father, =>

Ankit is Shruti's brother.

$$\Rightarrow \text{Ans} - (D)$$