Aptitude Sample Paper - 1

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 1

The ages of Sumina and Suhana are in the ratio of 7 : 3. After 6 years the ratio of their ages will be 5 : 3. What is the difference in their present ages?

A) 6 years   B) 8 years   C) 10 years   D) 12 years

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 2

Find the intercepts made by the line 3x + 4y - 12 = 0 on the axes:

A) 2 and 3   B) 4 and 3   C) 3 and 5   D) None of these

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 3

The smallest two-digit number which when divided by 4, 6 or 7 leaves a remainder of 2, is

A) 44   B) 62   C) 80   D) 86

DIRECTIONS: *Solve the following question and mark the best possible option*
Question No. : 4

An oil tanker contained 5,500 litres of oil. Three-fifth of the oil was delivered to a customer and two-fifth of the remaining was delivered to another customer. The number of litres of oil that remains in the tanker is:

A) 880 litres   B) 1320 litres   C) 440 litres   D) 0 litre

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 5

A box contains 6 red balls, 7 green balls and 5 blue balls. Each ball is of a different size. The probability that the red ball selected is the smallest red ball, is

A) $1/18$ B) $1/3$ C) $1/6$ D) $2/3$

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 6

How many two-digit odd numbers can be formed from the digits 1, 2, 3, 4, 5, if repetition of digit is allowed?

A) 5   B) 15   C) 35   D) 25

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 7

Swati rows a boat at the speed of 5 km/hr in still water. It takes her one hour more to row the boat 5.25 km upstream than to return down stream. Find the speed of the stream.

A) 5 km/hr   B) 3 km/hr   C) 2 km/hr   D) 4 km/hr

Question No. : 8

An aeroplane travels distances of 2500 km, 1200 km and 500 km at speeds of 500 km/hr, 400 km/hr and 250 km/hr respectively. The average speed is

A) 420 km/hr   B) 405 km/hr   C) 410 km/hr   D) 575 km/hr

Question No. : 9

A 110 metres long train running at 36km/hr crosses the 132 metre long bridge in

A) 24.2 sec   B) 13.2 sec   C) 11.0 sec   D) 2.2 sec

Question No. : 10

15 men can do a piece of work in 6 days. How many men would be required to do the same work in 7.5 days?

A) 10   B) 16   C) 12   D) 20

Question No. : 11

Hema can paint 45 feet in an hour, and Esha can paint 75 feet in an hour, how many minutes will it take them to paint a 250-foot fence, if they work together?

A) 150   B) 250   C) 200   D) 125

Question No. : 12

The length of a rectangle is increased to $^3/_2$ times of its length and breadth is reduced to $^1/_3$rd of its breadth. What is the change in area?

A) $^1/_3$ B) 1/4   C) 1/2   D) No change

Question No. : 13

Which one of the following cannot be the ratio of angles in a right-angled triangle?

A) 1 : 2 : 3   B) 1 : 1 : 2   C) 1 : 3 : 6   D) None of these

Question No. : 14

A grocer mixes 28kg of tea costing Rs. 6.20 per kg with 12 kg costing Rs. 8.40 per kg. The cost of the mixture per kg is

A) Rs. 7.30   B) Rs. 6.86   C) Rs. 7.86   D) Rs. 8.00

Question No. : 15

The number that must be added to each of the numbers 8, 21, 13 and 31 to make the ratio of first two numbers equal to the ratio of last two numbers is

A) 7   B) 5   C) 9   D) None of these

Question No. : 16

Mansi started a business investing Rs.42,000/-. After 7 months Kamya joined her with a capital of Rs. 50,000/-. At the end of the year the total profit was Rs. 30,160/-. What is the share of profit of Kamya?

A) Rs. 10,000/-   B) Rs. 20,160/-   C) Rs. 10,160/-   D) Rs. 8,000/-

Question No. : 17

Fourth term of an arithmetic progression is 8. What is the sum of the first 7 terms of the arithmetic progression?

A) 7   B) 64   C) 56   D) Cannot be determined

Question No. : 18

There are two examination rooms A and B. If 10 candidates are sent from A to B, the number of students in each room is the same. If 20 candidates are sent from B to A, the number of students in A is double the number of students in B. Find the number of students in each room.

A) 100 in A and 80 in B   B) 80 in A and 100 in B   C) 120 in A and 100 in B   D) 100 in A and 120 in B

Question No. : 19

At what rate percent of simple interest, Rs. 250 will be Rs. 300 in 4 years?

A) 4%   B) 5%   C) 6%   D) 10%

Question No. : 20

The number of the members of a club is increased by 10% every year. If the initial number of the members is 500, then what will be the number at the beginning of the third year ?

A) 610   B) 615   C) 620   D) 605

Question No. : 21

A manufacturer makes an article for Rs 500 and advertises it at Rs 750. He offers a sale discount of 10% on the article and another 10% after sale discount as cash discount. Find his overall profit or loss%.

A) 20%   B) 22%   C) 21.5%   D) None of these

Question No. : 22

Three balloons — one red, one blue and one yellow escaped into the air. The combined height of the red and the yellow balloons was 100 m. The combined height of the blue and the yellow balloons was 80 m. The combined height of the red and the blue balloons was 60 m. What is the height of the red balloon? (in m) (in numerical value)

A) 40   B)   C)   D)

Question No. : 23

Hospital has a staff of 500 made up of nurses and cleaning staff. The average daily wage of these 500 employees is Rs. 300. The average daily wage of the 300 nurses was Rs. 50 more than that of the cleaning staff. What was the average daily wage of the nurses (in Rs.)? (write only the numerical value)

A) 320   B)   C)   D)

Question No. : 24

A, B, C and D play a game of cards. A says to B, 'If I give you 8 cards, you will have as many as C has and I shall have 3 less than what C has. Also if I take 6 cards from C, I shall have twice as many as D has'. If B and D together have 50 cards, how many cards has A got ?

A) 27   B) 23   C) 37   D) 40

Question No. : 25

How many keystrokes are needed to type numbers from 1 to 1000 (excluding the space key)?

A) 3001   B) 2893   C) 2704   D) 2890

Question No. : 26

Statements	:	The integrated steel plants in India no longer have to depend on imports for continuous casting refractories.
Assumption	:	I. Continuous casting refractories are needed by India.
		II. Continuous casting refractories are in demand.

Choose the correct option:

A) If only assumption I is implicit;   B) If on assumption II is implicit;   C) If neither I nor II is implicit; and
D) If both I and II are implicit.

Question No. : 27

Statement:

The patient's condition would improve after operation.

Assumptions:

I. The patient can be operated upon in this condition.
II. The patient cannot be operated upon in this condition.

A) if only assumption I is implicit   B) if only assumption II is implicit   C) if neither assumption I nor II is implicit
D) if both assumptions I and II are implicit

Question No. : 28

Statement:

Black cloud follows thunder; rains follow thunder.

Conclusions:

I. Thunder is the cause of rain.
II. Black cloud is the cause of thunder.

A) if only conclusion I is strong   B) if only conclusion II is strong   C) if neither conclusion I nor II are strong
D) if both conclusion I and II are strong

Question No. : 29

Advertisement: Today's customers expect high quality. The company that is satisfied with the current quality of its products will soon find that its customers are not. At New Crop, meeting or exceeding customer expectations is our goal.

Which of the following must be true on the basis of the statements in the advertisement above?

A) New Crop customers are currently satisfied with the quality of its products
B) If a company becomes satisfied with the quality of its products, then the quality of its products is sure to decline.
C) A company that does not correctly anticipate the expectations of its customers is certain to fail in advancing the quality of its products.
D) New Crop's goal is possible to meet if only continuing advances in product quality are possible.

DIRECTIONS for the question: *Answer the question is based on the following information.*

Companies K and L, each has the same number of employees who work the same number of hours per week.
    According to records maintained by company, the employees of company K had fewer job-related accidents last year than did the employees of L. Therefore, employees of company K are less likely to have job related accidents than employees of company L.

Question No. : 30

Which of the following, if true, would most **weaken** the conclusion above?

A) The majority of job-related accidents at company K involved a single machine.
B) The employees of company L were sick more often than were the employees of company K.
C) Company L considered more types of accidents to be job-related than did company K.
D) Several employees of company K, each had more than one job-related accident.

Question No. : 31

DIRECTIONS for the question: The following is a table describing garments manufactured based upon the colour and size of each lay. There are four sizes: M – Medium, L- Large, XL –Extra Large. There are three colours: Yellow, Red and White.

Lay No	Number of Garments											
	Yellow				Red				White			
	M	L	XL	XXL	M	L	XL	XXL	M	L	XL	XXL
1	14	14	7	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	42	42	21	0
3	20	20	10	0	18	18	9	9	0	0	0	0
4	20	20	10	0	0	0	0	0	30	30	15	0
5	0	0	0	0	24	24	12	0	30	30	15	0
6	22	22	11	0	24	24	12	0	32	32	16	0
7	0	24	24	12	0	0	0	0	0	0	0	0
8	0	20	20	10	0	2	2	1	0	0	0	0
9	0	20	20	10	0	0	0	0	0	22	22	11
10	0	0	0	0	0	26	26	13	0	20	20	10
11	0	22	2	11	0	26	26	13	0	22	22	11
12	0	0	2	2	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	20	20
14	0	0	0	0	0	0	0	0	0	0	22	22
15	0	0	10	10	0	0	2	2	0	0	22	22
16	0	0	0	0	1	0	0	0	1	0	0	0
17	0	0	0	0	0	5	0	0	0	0	0	0
18	0	0	0	0	0	32	0	0	0	0	0	0
19	0	0	0	0	0	32	0	0	0	0	0	0
20	0	0	0	0	0	5	0	0	0	0	0	0
21	0	0	0	18	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	26	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	22
24	0	0	0	8	0	0	0	1	0	0	0	0
25	0	0	0	8	0	0	0	0	0	0	0	12
26	0	0	0	0	0	0	0	1	0	0	0	14
27	0	0	0	8	0	0	0	2	0	0	0	12
Production	76	162	136	97	67	194	89	59	135	198	195	156
Order	75	162	135	97	67	194	89	59	135	197	195	155
Surplus	1	0	1	0	0	0	0	0	0	1	0	1

How many lays are used to produce yellow coloured fabrics ?

A) 10   B) 11   C) 12   D) 14

Question No. : 32

DIRECTIONS for the question: The following is a table describing garments manufactured based upon the colour and size of each lay. There are four sizes: M – Medium, L- Large, XL –Extra Large. There are three colours: Yellow, Red and White.

Lay No	Number of Garments											
	Yellow				Red				White			
	M	L	XL	XXL	M	L	XL	XXL	M	L	XL	XXL
1	14	14	7	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	42	42	21	0
3	20	20	10	0	18	18	9	9	0	0	0	0
4	20	20	10	0	0	0	0	0	30	30	15	0
5	0	0	0	0	24	24	12	0	30	30	15	0
6	22	22	11	0	24	24	12	0	32	32	16	0
7	0	24	24	12	0	0	0	0	0	0	0	0
8	0	20	20	10	0	2	2	1	0	0	0	0
9	0	20	20	10	0	0	0	0	0	22	22	11
10	0	0	0	0	0	26	26	13	0	20	20	10
11	0	22	2	11	0	26	26	13	0	22	22	11
12	0	0	2	2	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	20	20
14	0	0	0	0	0	0	0	0	0	0	22	22
15	0	0	10	10	0	0	2	2	0	0	22	22
16	0	0	0	0	1	0	0	0	1	0	0	0
17	0	0	0	0	0	5	0	0	0	0	0	0
18	0	0	0	0	0	32	0	0	0	0	0	0
19	0	0	0	0	0	32	0	0	0	0	0	0
20	0	0	0	0	0	5	0	0	0	0	0	0
21	0	0	0	18	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	26	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	22
24	0	0	0	8	0	0	0	1	0	0	0	0
25	0	0	0	8	0	0	0	0	0	0	0	12
26	0	0	0	0	0	0	0	1	0	0	0	14
27	0	0	0	8	0	0	0	2	0	0	0	12
Production	76	162	136	97	67	194	89	59	135	198	195	156
Order	75	162	135	97	67	194	89	59	135	197	195	155
Surplus	1	0	1	0	0	0	0	0	0	1	0	1

How many varieties of fabrics, which exceed the order, have been produced ?

A) 3   B) 4   C) 5   D) 6

Question No. : 33

DIRECTIONS for the question: The following is a table describing garments manufactured based upon the colour and size of each lay. There are four sizes: M – Medium, L- Large, XL –Extra Large. There are three colours: Yellow, Red and White.

Lay No	Number of Garments											
	Yellow				Red				White			
	M	L	XL	XXL	M	L	XL	XXL	M	L	XL	XXL
1	14	14	7	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	42	42	21	0
3	20	20	10	0	18	18	9	9	0	0	0	0
4	20	20	10	0	0	0	0	0	30	30	15	0
5	0	0	0	0	24	24	12	0	30	30	15	0
6	22	22	11	0	24	24	12	0	32	32	16	0
7	0	24	24	12	0	0	0	0	0	0	0	0
8	0	20	20	10	0	2	2	1	0	0	0	0
9	0	20	20	10	0	0	0	0	0	22	22	11
10	0	0	0	0	0	26	26	13	0	20	20	10
11	0	22	2	11	0	26	26	13	0	22	22	11
12	0	0	2	2	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	20	20
14	0	0	0	0	0	0	0	0	0	0	22	22
15	0	0	10	10	0	0	2	2	0	0	22	22
16	0	0	0	0	1	0	0	0	1	0	0	0
17	0	0	0	0	0	5	0	0	0	0	0	0
18	0	0	0	0	0	32	0	0	0	0	0	0
19	0	0	0	0	0	32	0	0	0	0	0	0
20	0	0	0	0	0	5	0	0	0	0	0	0
21	0	0	0	18	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	26	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	22
24	0	0	0	8	0	0	0	1	0	0	0	0
25	0	0	0	8	0	0	0	0	0	0	0	12
26	0	0	0	0	0	0	0	1	0	0	0	14
27	0	0	0	8	0	0	0	2	0	0	0	12
Production	76	162	136	97	67	194	89	59	135	198	195	156
Order	75	162	135	97	67	194	89	59	135	197	195	155
Surplus	1	0	1	0	0	0	0	0	0	1	0	1

How many lays are used to produce Extra-extra Large Yellow or Extra-extra Large White Fabrics?

A) 8   B) 9   C) 10   D) 15

DIRECTIONS for the question: *Read the information given below and answer the question that follows.*

Question No. : 34

Five friends P, Q, R, S and T went to college independently. Each one of them reached at a different time. If only Q reached after R and S, who was the last person to reach?

A) P   B) T   C) Q   D) Cannot be determined

DIRECTIONS for the question: *Read the information given below and answer the question that follows.*

Question No. : 35

Four suspects, A, B, C and D are being questioned for a crime that one of them has committed. It is known that a criminal always lies while the others would always tell the truth.

A says: C did not commit the crime.
B says: D committed the crime.
C says: B did not commit the crime.
D says: I did not commit the crime.

Who committed the crime?

A) A   B) B   C) C   D) D

Question No. : 36

From a list of four comics, four friends discuss their favourite comics. At least 2 friends vote for Mandrake, not more than 3 vote for Mammaji, 1 votes for Alibaba and 2 vote for Tom & Jerry. If two friends have exactly voted for 2 different comics each, and 2 friends for exactly 3 different comics each, then how many votes did Mandrake get?

A) 2   B) 3   C) 4   D) Can't say

Question No. : 37

From a bag containing 243 balls, one ball weighs 19.9 grams and all the other weigh 19.5 grams each. Using a simple balance where balls can be kept on either pan, what is the minimum weighs required to identify the defective ball?

A) 3   B) 4   C) 5   D) 7

Question No. : 38

If CANCELLED = 27 and POSTPONEMENT = 36, then REVIVE = ?

A) 6   B) 12   C) 15   D) 18

Question No. : 39

In a certain code 'ROAD' is written as 'URDG'. How is 'SWAN' written in that code?

A) V X D Q   B) V Z D Q   C) U X D Q   D) V Z C Q

Question No. : 40

48, 24, 72, 36, 108,?

A) 115   B) 110   C) 121   D) 54

Question No. : 41

K-11, M-13, P-16, T-20,?

A) V-22   B) U-21   C) Y-25   D) W-25

Question No. : 42

A is cousin of C. C and Q are sisters. Z is Q's mother. P is son of Z, then:

A) P and A are cousins   B) P is maternal uncle of A   C) Q is A's grandfather   D) C and P are sisters

Question No. : 43

X told Y, "Though I am the son of your father, you are not my brother". How is X related to Y?

A) Brother   B) Son   C) Daughter   D) Sister

DIRECTIONS for the question: In the question below are given two statements followed by four conclusions numbered I, II, III and IV. You have to take the two given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the two given statements disregarding.

Question No. : 44

Statements:
1. Some pistols are guns.   2. Some pistols are swords
Conclusions:
I. Some guns are swords   II. No sword is a gun.
III. Every pistol is either gun or sword   IV. Some pistols are neither gun nor sword.

A) Only I follow   B) Only III and IV follow   C) Either II or III follow   D) Either I or II follow

DIRECTIONS for the question: Solve the following question and mark the best possible option.

Question No. : 45

The symbols @, #, $, % and * are used with different meanings as follows:
A @ B means A is not smaller than B.
A # B means A is neither smaller than nor equal to B.
A $ B means A is neither greater than nor smaller than B.
A % B means A is not greater than B.
A* B means A is neither greater than nor equal to B.

In each question, four statements showing relationships have been given, which are followed by three conclusions I, II and III. Assuming that the given statements are true, find out which conclusions) is/are definitely true.

Statements: R@J, J%F, F * E, E%M
Conclusions: I. M # J   II. F % M   III. M * R

A) Only I follows   B) Only II follows   C) Only III follows   D) Only I & II follow

DIRECTIONS for the question: In the question, there are four choices. Three of them are alike in some respect and one is different. Find the odd one out.

Question No. : 46

A) 3548   B) 5876   C) 6914   D) 5852

DIRECTIONS for the question: Answer the question based on the information given below:

250 candidates appeared in an examination having two papers - Mathematics and English. 200 candidates secured pass marks in mathematics paper and 175 candidates in English.
Question No. : 47

The number of candidates who secured passing marks in at least one paper lies between (both ends included)

A) 200 and 250   B) 175 and 230   C) 175 and 200   D) 125 and 200

Question No. : 48

Number of times the hands of a clock are in a straight line every day is

A) 44   B) 24   C) 42   D) 22

Question No. : 49

In a row of children, Vibha is eighth from the left and Abha is fourth from the right. WhenVibha and Abha exchange positions,Vibha will be fifteenth from the left. Which will be Abha's position from the right '?

A) Eighth   B) Fourth   C) Tenth   D) Eleventh

Question No. : 50

In a locality there are five buildings - A. B, C, D and E. All of them are of different heights. The tallest building has five floors, the next tallest has four floors. and so on, till the shortest which has only one floor.

Further it is known that:
(i) The sum of the number of floors in A and E is equal to the sum of the number of floors in C and D.
(ii) C is not the tallest building and A is not the shortest building.
(iii) C is taller than A and D is taller than B.

If D is taller than C, then for how many of the following pairs of buildings is the sum of floors a perfect square? (in numerical value)
i. B and A   ii. D and E   iii. C and B

A) 2   B)   C)   D)

Question No. : 51

Name the country which has moved to the forefront of a campaign to restrict the wearing of the Muslim veil by women when a key vote left it on track to become the first European country to ban the burqa and naqaab in public.

A) France   B) Switzerland   C) Denmark   D) Belgium

Question No. : 52

'Prashasan Gaon ke Sang' Campaign has launched in which state to provide Government Services to Remote Villages?

A) Haryana   B) Uttar Pradesh   C) Himachal Pradesh   D) Rajasthan

Question No. : 53

Which celebrity is going to venture into the cryptocurrency space through the association with CoinDCX's 'Future Yahi Hai' campaign?

A) Ranveer Kapoor   B) Shahrukh Khan   C) Vicky Kaushal   D) Ayushmann Khurrana

Question No. : 54

Which of the following statements with regard to the 'Fifth Report' is/are correct?

1. It was submitted to the British Parliament in 1813 for consideration.
2. It became the basis of intense parliamentary debates on the nature of the East India Company's rule in India.
3. It was primarily on the economic conditions of the urban and industrial centres of India.

Select the correct answer using the code given below:

A) 1 and 3 only   B) 1 and 2 only   C) 2 only   D) 1, 2 and 3

Question No. : 55

Mitra Shakti-21 is a bilateral exercise between the Indian Army and which country's army ?

A) Thailand   B) Bangladesh   C) Nepal   D) Sri Lanka

Question No. : 56

Which of the following organisation observed, the World Investor Week (WIW) from October 04 to 10, 2021?

A) World Economic Forum   B) International Organization of Securities Commissions   C) International Monetary Fund
D) World Bank

Question No. : 57

Name the new operating system launched recently by Microsoft – the long awaited release being packed with many new features and improvement over its controversial predecessor, Windows 8:

A) Windows 8.2   B) Windows 8.3   C) Windows 8.1   D) Windows 8 Alpha

Question No. : 58

A rising Indian-American political figure, Raj Mukherji, has won local body elections in which U.S. state, becoming one of the youngest people to do so.

A) Arizona   B) California   C) Indiana   D) New Jersey

Question No. : 59

In what could be tagged as a maiden tie-up in the gold loan space, which private sector lender recently entered into a co-lending partnership with Kochi-based gold loan firm Indel Money?

A) Yes Bank   B) IndusInd Bank   C) IDFC First Bank   D) Axis Bank

Question No. : 60

Name the first Indian credit rating agency to be associated with the Principles for Responsible Investment (PRI), a United Nations-backed initiative that deals with ESG (Environment Social Governance) credit risk.

A) Acuite Ratings & Research   B) CRISIL   C) ICRA Limited   D) Infomerics Ratings

Question No. : 61

The results of the Lok Sabha elections are declared by the

A) Election Commission of India   B) State Election Commission   C) Returning Officer   D) District Magistrate

Question No. : 62

The FIH (International Hockey Federation) Men's Junior Hockey World Cup will be held behind closed doors in which Indian city, as Hockey India and FIH have jointly decided to hold the marquee event without fans as part of precautions against COVID-19?

A) Jaipur   B) Lucknow   C) Ranchi   D) Bhubaneswar

Question No. : 63

The 'National Tribal Dance Festival', which hosted artists belonging to diverse tribal communities from India and other countries, including Uzbekistan, Nigeria, Sri Lanka, Uganda, Syria, Mali, Palestine, and Kingdom of Eswatini, was held in which city?

A) Raipur   B) Ranchi   C) Guwahati   D) Bhubaneswar

Question No. : 64

Which Caribbean nation recently elected its first-ever President to replace Britain's Queen Elizabeth II as the Head of State in a decisive step toward shedding the Caribbean island's colonial past?

A) Bahamas   B) Saint Lucia   C) Trinidad and Tobago   D) Barbados

Question No. : 65

Which plan recommended an 'Undivided India', turning down the demand for Pakistan?

A) Cripps Proposal   B) Desai-Liaqat pact   C) Wavell plan   D) Cabinet Mission Plan

Question No. : 66

With the aim of providing an effective solution to the problem of capacity constraints in critical rail sections, the Indian Railways successfully launched and operated two long-haul freight trains named _____and _____for the first time over South-Central Railway.

A) Durga, Amrita   B) Virat, Sagar   C) Trishul, Garuda   D) Indra, Matsya

Question No. : 67

Which two countries have been ranked at the top of the 'Henley Passport Index 2021', with their passports holders allowed to travel visa-free to 192 countries?

A) Japan & Singapore   B) South Korea & Germany   C) Switzerland & Denmark   D) New Zealand & Ireland

Question No. : 68

Which government-owned oil and gas corporation has launched an automated fueling technology -UFill- to ensure that its customers have a better experience at outlets?

A) IOC   B) BPCL   C) ONGC   D) HPCL

Question No. : 69

Who among the following was the President of Indian National Congress when India attained independence?

A) Jawaharlal Nehru   B) Vallabhbhai Petal   C) Maulana Azad   D) Acharya Kriplani

Question No. : 70

India dominated the International Hockey Federation's (FIH) Hockey Stars Awards 2020/21 with drag-flickers _____ and _____ winning the women's and men's Player of the Year awards.

A) Rani Rampal, Manpreet Singh   B) Vandana Katariya, Mandeep Singh   C) Savita Punia, Rupinder Pal Singh
D) Gurjit Kaur, Harmanpreet Singh

Question No. : 71

Which state has the highest number of members in its state assembly?

A) Bihar   B) Andhra Pradesh   C) Uttar Pradesh   D) Tamil Nadu

Question No. : 72

Which team has won the Indian Premier League (IPL) title 2021?

A) Mumbai Indians   B) Chennai Super Kings   C) Sunrise Hyderabad   D) Delhi Capitals

Question No. : 73

According to a recent report by WHO, with respect to which disease's elimination is India the worst performer?

A) Malaria   B) Pertussis   C) Tuberculosis   D) Polio

Question No. : 74

Who wrote the book "Actually… I Met Them: A Memoir"?

A) A. R. Rahman   B) Javed Akhtar   C) Gulzar   D) Prasoon Joshi

Question No. : 75

Which of the following is the only coral island in India?

A) Andaman-Nicobars   B) Pondicherry   C) Lakshadweep   D) Kiribati

QNo:- 1 ,Correct Answer:- B

Explanation:-
Let the present ages of Sumina and Suhana be 7x and 3x respectively.
So, as per the given condition,
(7x + 6) : (3x + 6) = 5 : 3,
Solving we get x = 2.
So, difference of their present ages = (7×2) – (3×2) = 8 years.

QNo:- 2 ,Correct Answer:- B

Explanation:-
3x + 4y – 12 = 0
Or, 3x + 4y = 12
Or, x/4 + y/3 = 1
Using x/a + y/b = 1, we get intercepts as 4 and 3.

QNo:- 3 ,Correct Answer:- D

Explanation:- Required number = LCM (4, 6, 7) + 2 = 84 + 2 = 86.

QNo:- 4 ,Correct Answer:- B

Explanation:-

	Initial	Delivered	left
Customer 1	5500	3300	2200
Customer 2	2200	880	1320

Hence option B.

QNo:- 5 ,Correct Answer:- C

Explanation:-
Since there are 6 red balls and all six of them are of different sizes, the probability of choosing the smallest among them is 1/6.

QNo:- 6 ,Correct Answer:- B

Explanation:-

5 ways   1, 3, 5 (3 ways)

Here unit place can be filled in 3 ways (i.e. 1, 3, 5)
Ten's place can be filled in 5 ways. Required number of numbers = 5 × 3 = 15

QNo:- 7 ,Correct Answer:- C

Explanation:-
The question states that the difference between time taken to go downstream and upstream differs by 1.
let speed of stream be = x
so, the equation becomes:

$$\frac{5.25}{5-x} - \frac{5.25}{5+x} = 1$$

now, using the options when we put x = 2, it satisfies the equation i.e.

$$\frac{5.25}{5-2} - \frac{5.25}{5+2} = \frac{5.25}{3} - \frac{5.25}{7} = (1.75 - 0.75) = 1$$

QNo:- 8 ,Correct Answer:- A

Explanation:-
Total distance = 2500 + 1200 + 500 = 4200 km

Total time taken = $\frac{2500}{500} + \frac{1200}{400} + \frac{500}{250} = 10$

Avg speed = $\frac{\text{Total distance}}{\text{Total time taken}} = \frac{4200}{10} = 420$ km/hr

Option A

QNo:- 9 ,Correct Answer:- A

Explanation:-
Distance = speed × time;
Total distance = length of the train + length of the bridge = 110 +132 = 242m.
Speed = 36kmph i.e. 36× (5 / 18) = 10m/s.
Therefore time = (242 / 10) = 24.2 sec.
Option A

QNo:- 10 ,Correct Answer:- C

Explanation:-
More days imply means less number of men, Therefore

$\text{Reqd. men} = 15\left(\dfrac{6}{7.5}\right) = 12$

QNo:- 11 ,Correct Answer:- D

Explanation:-
Heena can paint 45 feet in 1 hr, Esha can paint 75 feet in 1 hr,
So, both can paint 120 feet in 1 hr i.e 2F/min,
So, they will paint 250 feet in 250/2 =125 min.

QNo:- 12 ,Correct Answer:- C

Explanation:-
Let the original length be l and the breadth be b. The original area= lb. Let the new length = 3/2 l and the breadth = 1/3 b. Hence the new area = 1/2 lb. Hence the area has reduced by 1/2 of the original area.

QNo:- 13 ,Correct Answer:- C

Explanation:-
The largest angle in a right-angled triangle is 90º, which corresponds to the highest part of the ratio.
So let us evaluate each options. In (a), here the remaining two angles would be 30º and 60º, which is possible.
In (b), the remaining two angles in this case would be 45º each, which is again possible.
In (c), the remaining two angles are 15º and 45º, which is not possible as the angles do not add up to 180º.

QNo:- 14 ,Correct Answer:- B

Explanation:-
The cost / kg will be:
(28 × 6.2 + 12 × 8.4) / (28+12) = 274.4 / 40 = Rs 6.86.

QNo:- 15 ,Correct Answer:- B

Explanation:-
Let the number added to each value = x
Given, (8+x)/(21+x) = (13+x)/(31+x)
Solving, x = 5

QNo:- 16 ,Correct Answer:- *A*

Explanation:-
Mansi = Rs 42000 for 12 months. So total capital = 12 x 42000
Kamya = Rs. 50000 for 5 months. So total capital = 5 x 50000
Hence, profit ratio = 42000 x 12 : 50000 x 5 = 252 : 125
Total Profit = Rs. 30160
Therefore, Kamya's profit = 125 x 30160/377 = 125 x 80 = Rs. 10000
Hence, option A is the correct answer.

QNo:- 17 ,Correct Answer:- *C*

Explanation:-
The middle term of an AP is always the average of all the terms.
Hence, if we multiply the middle term by the number of terms, we should get the sum of all the terms of that AP.
In our problem, we have to find the sum of first 7 terms and we have been given the 4th term (which is the middle term).
Hence the required answer is 8 × 7 = 56.
Option C

QNo:- 18 ,Correct Answer:- *A*

Explanation:-
Let no. of students in room A= X & room B= Y.
According to ques. X-10= Y+10 & X + 20= 2(Y-20).
Solving , we get X=100 and Y=80.
Hence the answer is option A

QNo:- 19 ,Correct Answer:- *B*

Explanation:-
Simple interest = (Principle×time×rate)/100
50 = 250 × 4 × R/100
R = 5%.

QNo:- 20 ,Correct Answer:- *D*

Explanation:-
Initial number of members = 500
Number of members at begining of 3rd year

$$= 500 \times \left(1 + \frac{10}{100}\right)^2 = 605.$$

QNo:- 21 ,Correct Answer:- *C*

Explanation:-
Selling price value after these 2 discounts = .90 × .90 × 750 = .81 × 750 = 607.5
So profit % = 107.5/500 × 100 = 21.5%.

QNo:- 22 ,Correct Answer:- 40

Explanation:-
Let height of red balloon = R
Height of blue balloon = B
and height of yellow balloon = Y
R + Y = 100 .... (i)
B + Y = 80 .... (ii)
R + B = 60 .... (iii)
By (i) + (ii) + (iii) = 2 (R + B + Y) = 240
Thus, R + B + Y = 120 .... (iv)
By (iv) – (ii), we get R = 40

QNo:- 23 ,Correct Answer:- 320

Explanation:-
Let the daily wage of nurses be Rs. x. So, (500 × 300) = 300x + 200 (x – 50). Thus, 150000 = 500x – 10000 or 160000 = 500x, which yields x = Rs. 320.

QNo:- 24 ,Correct Answer:- D

Explanation:-
Note that A + 6 = 2D
Value of A can't be an odd number because in that case A + 6 will not be perfectly divisible by 2. Therefore, reject the choices 1), 2) and 3).

QNo:- 25 ,Correct Answer:- B

Explanation:-
While typing numbers from 1 to 1000, you have 9 single digit numbers from 1 to 9. Each of them require one keystroke. That is 9 key strokes.
There are 90 two-digit numbers, from 10 to 99. Each of these numbers requires 2 keystrokes. Therefore, one requires 180 keystrokes to type the 2 digit numbers.
There are 900 three-digit numbers, from 100 to 999. Each of these numbers requires 3 keystrokes. Therefore, one requires 2700 keystrokes to type these 3 digit numbers.
Then 1000 is a four-digit number which requires 4 keystrokes.
Totally, therefore, one requires 9 + 180 + 2700 + 4 = 2893 keystrokes

QNo:- 26 ,Correct Answer:- D

Explanation:-
Both I & II are implicit.
As the statement says "The integrated steel plants in India no longer have to depend on imports for continuous casting refractories" means that existence of these refractories is necessary and also in demand. The statement mentions the self-sufficiency of India in continuous casting refractories. This means that they are needed in the country. So, I is implicit. Since continuous casting refractories are needed in integrated steel plants, it means they are in demand. So, II is implicit.

QNo:- 27 ,Correct Answer:- A

Explanation:-
Option 1.The phrase 'would improve' implies that the patient's condition will improve hence assumption 1 is correct. If the patient cannot be operated upon then there is no point in suggesting this to him.

QNo:- 28 ,Correct Answer:- C

Explanation:-
Option 3. There is no relation shown between black clouds and rain in the question statements. Just because the black clouds follow thunder we cannot say that the black clouds cause thunder and this applies to rain and thunder too. Hence both the conclusions are rejected.

QNo:- 29 ,Correct Answer:- D

Explanation:-
Option D. In the last line of the question, company claims that it is continuously working to meet or exceed expectations of customers. Meeting ever increasing customers' expectations of high quality are possible only if continuing advances in product quality are possible.
Option C is incorrect because of use of word 'certain to fail'
Option B is incorrect because of last part ' sure to **_decline_**'
Option A is incorrect as what's the current status of satisfaction levels

QNo:- 30 ,Correct Answer:- C

Explanation:-
Option 3. If Company K considered more types of accidents to be job-related than Company L did, it would lead to more employees of Company K reporting an accident. This does not mean that employees of Company L are more likely to have accidents. Hence 3.

QNo:- 31 ,Correct Answer:- D

Explanation:-
Count only those lays for which any size of yellow coloured fabric is produced. They are lay number 1, 3, 4, 6, 7, 8, 9, 11, 12, 15, 21, 24, 25, 27 Hence, 14 is the answer.

QNo:- 32 ,Correct Answer:- B

Explanation:-
Direct from the table we can find out that in 4 varieties, the order has surplus.

QNo:- 33 ,Correct Answer:- D

Explanation:-
Count lay number for which at least one of the XXL from yellow and white are non-zero. Lay number 7, 8, 9, 10, 11, 12, 13, 14, 15, 21, 23, 24, 25, 26, 27. Hence, 15 is the answer.

QNo:- 34 ,Correct Answer:- C

Explanation:-
Only Q reached after R and S implies that P and T have reached earlier then R and S. Therefore Q is the last person to reach.

QNo:- 35 ,Correct Answer:- D

Explanation:-
Suppose A is the criminal. Since A's statement is false, it means that C is the criminal. This is a contradiction. So A is not the criminal. Suppose B is the criminal. Then C tells the truth that B is not the criminal. This is contradiction. So B is not the criminal. Suppose C is the criminal. Since C's statement is false, it means that B is the criminal. This is a contradiction. So, C is not the criminal. Suppose D is the criminal. Since B's statement is true and D's statement is false, we can conclude that D is the criminal.

QNo:- 36 ,Correct Answer:- C

Explanation:-
There are a total of 10 votes, of which exactly 3 go to Alibaba and Tom & Jerry together.
The remaining 7 are distributed between Mandrake and Mammaji.
Maximum votes that Mandrake can get is 4 (since there are only 4 comics) and maximum votes that Mammaji can get are 3.

QNo:- 37 ,Correct Answer:- C

Explanation:-
By dividing the total balls in three parts and putting two parts on the simple balance we can find which of the three parts has ball of different weight. Again divide this part into further three parts and put two parts on the simple balance. From here again we can find the part having ball with different weight. Again this part can be divided into three parts and so on. So 3^5 = 243 i.e up to 243 balls can be checked within 5 weighings.

QNo:- 38 ,Correct Answer:- D

Explanation:-
No. of alphabets in CANCELLED = 9
Coding = 9×3=27.
Similarly for POSTPONEMENT = 12×3=36.
Thus Code for REVIVE = 6×3=18.

QNo:- 39 ,Correct Answer:- B

Explanation:-
The letters of the code are +3 than the letters of the word..

R   O   A   D

+3   +3   +3   +3

U   R   D   G

So on this pattern the code of SWAN will be VZDQ.

QNo:- 40 ,Correct Answer:- D

Explanation:-
$48 \times \frac{1}{2}$ = 24, 24 × 3 = 72, 72 × $\frac{1}{2}$ =36, 36 × 3 = 108, 108 × $\frac{1}{2}$ = 54
The pattren is   x1/2,   x3,   x1/2, x3.
Therefore next will be 54 (option D).

QNo:- 41 ,Correct Answer:- C

Explanation:-
Difference between the numeric values is an increasing AP
1,2,3,4 and so on .
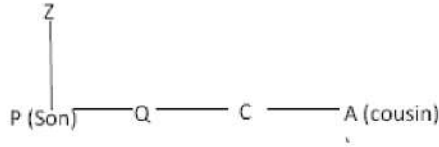And the alphabets are the numeric ranks in alphabetical series therefore
20+5 = 25 , it will be accompaied by letterY.
Therefore next alphabet will be Y - 25

QNo:- 42 ,Correct Answer:- A

Explanation:-

We can make the following family chart

So P and A are cousins

QNo:- 43 ,Correct Answer:- A

Explanation:-

X being son is male so he is the brother of Y.
As Y is not the brother, Y must be the sister of X.

As X is the brother, the answer is option A.

QNo:- 44 ,Correct Answer:- D
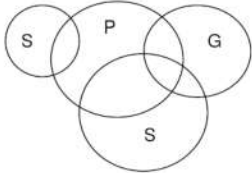
Explanation:-

Hence we can say that either of the conclusions I or II follw.

QNo:- 45 ,Correct Answer:- A

Explanation:-

$R \geq J$ ... (i); $J \leq F$ ... (ii); $F < E$ ... (iii); $E \leq M$ ....(iv) Combining (iii) and (iv), we get $F < M$ ... (v). Hence conclusion II ($F \leq M$) does not follow. Combining (ii) and (v), we get $M > J$ ... (vi). Hence conclusion I follows. But comparing (i) and (vi), we do not any relationship between M and R. Hence III does not follow.

QNo:- 46 ,Correct Answer:- B

Explanation:-

The sum of digits is 20 for each option except '5876' where the total is 26.

QNo:- 47 ,Correct Answer:- A

Explanation:-

The min. no. of candidates passing in at least one subject = 200
(because 200 candidates are pass in Mathematics and this corresponds to the case where 175 people passing in English paper also pass in the Mathematics)
Maximum no. of candidates passing in at least one subject is 250.

QNo:- 48 ,Correct Answer:- A

Explanation:-

In 12 hour, the hands of clock coincide 11 times and they make 180^0 also 11 times, thus total of 22 times they are in same straight line.
So in 24 hours, the hands of clock will be forming a straight line 2 x 22 = 44 times.

QNo:- 49 ,Correct Answer:- D

Explanation:-

After exchanging positions, Vibha becomes fifteenth instead of eighth from the left, it means there are 6 students between these two positions. So Abhas positions from right will become eleventh. So option D.

QNo:- 50 ,Correct Answer:- 2

Explanation:-

A is not the shortest and C is not the tallest. Further, A is shorter than C and B is shorter than D Since, C is taller than A but not the tallest, A cannot have five floors. Similarly C, cannot have two floors. B cannot be the tallest since it is shorter than D.
⇒ The possibilities are
A→ 2,3
B→1.2.3.4
C→ 3,4
D→ 2,3,4,5
E→ 1,2,3,4,5
Given A+E=C+D
But C can take only 3 or 4 and neither A nor D can take 1.
∴C + D = (3 + 2) or (2 + 3) is not possible as A + E = 1 + 4 in such a case and A can be neither 1 nor 4.
C + D = 3 + 4 is possible ⇒A + E = 2 + 5   (1)
C + D = 4 + 3is possible ⇒A + E=2 + 5   (2)
In both the cases B is the building with only one floor.
C + B = 3 + 1 = 4 = 2^2 and D + E = 4 + 5 = 9 = 3^2.
Hence, for two pairs.

QNo:- 51 ,Correct Answer:- D

Explanation:-

QNo:- 52 ,Correct Answer:- D

Explanation:-

QNo:- 53 ,Correct Answer:- D

Explanation:-

QNo:- 54 ,Correct Answer:- B

Explanation:-

QNo:- 55 ,Correct Answer:- D

Explanation:-

QNo:- 56 ,Correct Answer:- B

Explanation:-

QNo:- 57 ,Correct Answer:- C

Explanation:-

QNo:- 58 ,Correct Answer:- D

Explanation:-

QNo:- 59 ,Correct Answer:- B

Explanation:-

QNo:- 60 ,Correct Answer:- A

Explanation:-

QNo:- 61 ,Correct Answer:- A

Explanation:-

QNo:- 62 ,Correct Answer:- D

Explanation:-

QNo:- 63 ,Correct Answer:- A

Explanation:-

QNo:- 64 ,Correct Answer:- D

Explanation:-

QNo:- 65 ,Correct Answer:- D

Explanation:-

QNo:- 66 ,Correct Answer:- C

Explanation:-

QNo:- 67 ,Correct Answer:- A

Explanation:-

QNo:- 68 ,Correct Answer:- B

Explanation:-

QNo:- 69 ,Correct Answer:- D

Explanation:-

QNo:- 70 ,Correct Answer:- D

Explanation:-

QNo:- 71 ,Correct Answer:- C

Explanation:-

QNo:- 72 ,Correct Answer:- B

Explanation:-

QNo:- 73 ,Correct Answer:- C

Explanation:-

QNo:- 74 ,Correct Answer:- C

Explanation:-

QNo:- 75 ,Correct Answer:- C

Explanation:-