

Q1. Given below are four jumbled sentences. Pick the option that gives their correct order.

P. It could be going for a jog, dancing to your favourite music or just working out in your room.

Q. So, try to involve a physical activity in your day which gets you moving.

R. Taking care of your physical health also has a positive impact on mental and emotional health.

S. These releases endorphins which are the “happy hormones” making us feel better

(a) RQPS

(b) SPQR

(c) QPSR

(d) PRQS

Q2. Select the most appropriate idiom (in the context) to fill in the sentence.

As soon as the thief saw a policeman, he showed _____.

(a) Out of the way

(b) Tooth and nail

(c) Cats and Dogs

(d) A clean pair of heels

Q3. Select the word which means the same as the group of words given.

The action or offence of speaking sacrilegiously about God or sacred things.

(a) Archaeology

(b) Anthropology

(c) Blasphemy

(d) Philosophy

Q4. In the following questions, a sentence or a part of a sentence is made bold. Below are given alternatives to the bold part which may improve the sentence. Choose the correct alternative. In case no improvement is required, choose “No Improvement.”

My friend is **enough rich** to buy a new flat in Delhi.

(a) Richer enough

(b) Enough richer

(c) No Improvement

(d) Rich enough

Q5. Given below are four jumbled sentences. Pick the option that gives their correct order.

P. Especially if you are overweight or obese, according to an interesting new review of the relationships among fitness, weight, heart health and longevity.

Q. The study, which analysed the results of hundreds of previous studies of weight loss and workouts in men and women, found that obese people typically lower their risks of heart

disease and premature death far more by gaining fitness than by dropping weight or dieting.

R. For better health and a longer life span, exercise is more important than weight loss.

S. The review adds to mounting evidence that most of us can be healthy at any weight, if we are also active enough.

- (a) RPQS
- (b) SQPR
- (c) QPSR
- (d) PQSR

Directions (6-10): Read the passage carefully and choose the best answer to fill the space provided out of the four alternatives.

In 1993, the UN General Assembly proclaimed 3 May as World Press Freedom Day _____(1) a recommendation adopted at the twenty-sixth session of UNESCO's General Conference in 1991. It is a _____ (2) that publications and social media are censored, fined, suspended, while journalists, editors and publishers are harassed, attacked and even killed worldwide.

This year's World Press Freedom Day theme "Information as a Public Good" _____(3) as a call to affirm the importance of cherishing information as a public good, and exploring what can be done in the production, distribution and reception of content to _____ (4) journalism, and to advance transparency and empowerment while leaving no one behind. The theme is of urgent relevance to all countries across the world. It _____ (5) the changing communications system that is impacting on our health, our human rights, democracies and sustainable development.

Q6. Select the most appropriate option for blank No.1

- (a) Urging
- (b) Following
- (c) Objecting
- (d) Considering

Q7. Select the most appropriate option for blank No.2

- (a) Reminder
- (b) Understanding
- (c) Problem
- (d) Situation

Q8. Select the most appropriate option for blank No.3

- (a) Function
- (b) Work
- (c) Serves
- (d) Viewed

Q9. Select the most appropriate option for blank No.4

- (a) Preserve
- (b) Examine
- (c) Anticipate
- (d) Strengthen

Q10. Select the most appropriate option for blank No.5

- (a) Welcomes
- (b) Expects
- (c) Recognizes
- (d) Pretends

Directions (11-15): Read the following passage and answer the questions that follow.

Famed physicist, cosmologist and writer Stephen Hawking was born on 8 January 1942, Stephen Hawking, the TV star exactly 300 years after Galileo died, and he died on 14 March, 2018, which happened to be his old rival Albert Einstein's birthday.

He was diagnosed, aged only 21, he was given only two years to live. But Hawking defied the normally fatal illness for more than 50 years, pursuing a brilliant career in science that stunned doctors and thrilled his fans. By the time he died at 76, Hawking was among the most recognisable faces in science, perhaps at par with Albert Einstein.

It is likely Professor Hawking is having a laugh at our expense, based on our **preposterous** love for coincidences. Comedy lies in the timing. Professor Hawking knew this, and over the years, became incredibly proficient at the art of the comedic pause. It is a tough art to master.

One of my all-time favourites Stephen Hawking moments came when the Professor sang comedy legends Monty Python's Galaxy Song for a charity a few years ago, correcting the technicalities in the song's words and numbers as he went along. It is an unbelievable treat, and these lyrics sound suitably profound when coming from the smartest human in the universe. "Pray that there's intelligent life somewhere up in space, cause there's bugger all down here on Earth."

"Life would be tragic if it wasn't funny," Professor Hawking had once said, and clearly enjoyed not only observing the humour in the world, but also pointing it out. His appearances on popular and irreverent mainstream television made us, the viewers, feel included. For a brief moment, we shared a laugh and got to be in the same orbit as him. We felt that this massively brilliant man watches the same television we do, and that's a genuinely comforting thought. Professor Hawking was an extraordinary man who loved ordinary things.

Q11. As per the passage, Professor Hawking was proficient at the art of?

- (a) Comedic pause
- (b) Songs
- (c) Lyrics
- (d) Humour

Q12. As per the passage, who was the rival of Stephen Hawking?

- (a) Galileo
- (b) He has no rivals
- (c) Albert Einstein
- (d) Monty Python

Q13. Which of the following statement(s) is/ are true as per the context of the passage?

- (i) Professor Hawking was an ordinary man who loved extraordinary things.
- (ii) Stephen Hawking was diagnosed, aged only 21, he was given only two years to live.
- (iii) Stephen Hawking was born on 8 January 1942, exactly 300 years after Albert Einstein's birthday.

- (a) Both (i) and (ii)
- (b) Only (ii)
- (c) Both (i) and (ii)
- (d) Only (iii)

Q14. What is the antonym of the word 'Preposterous' as per the context of the passage?

- (a) Laughable
- (b) Illogical
- (c) Courageous
- (d) Realistic

Q15. As per the passage, which was the all-time favourite Stephen Hawking moments of the author?

- (a) When Stephen Hawking sang comedy legends Monty Python's Galaxy Song for a charity a few years ago, correcting the technicalities in the song's words and numbers as he went along.
- (b) When Stephen Hawking not only observes the humour in the world, but also points it out.

- (c) When Stephen Hawking appeared on popular and irreverent mainstream television made us, the viewers, feel included.
- (d) After the author got to know that Stephen Hawking defied the normally fatal illness for more than 50 years, pursuing a brilliant career in science.

Q16. Improve the bracketed part of the sentence.

Both honey (or) jaggery has the same number of calories and may give the body the much-needed boost of instant energy.

- (a) For
- (b) But
- (c) And
- (d) No Improvement

Q17. In the sentence identify the segment which contains the grammatical error.

Sushmita is junior than the rest of the students in the class.

- (a) Sushmita is
- (b) rest of the students
- (c) No error
- (d) junior than the

Directions (18-20): Each of the following questions consists of a word in capital letters, followed by four words or group of words. Select the word or group of words that is most similar in meaning to the word in capital letters.

Q18. CONTEMPLATION

- (a) Consideration
- (b) Mutilation
- (c) Deliberation
- (d) Sophistication

Q19. QUIVER

- (a) Quarrel
- (b) Quicken
- (c) Worry
- (d) Tremble

Q20. IRREVERENCE

- (a) Disrespect
- (b) Cruelty
- (c) Kindness

(d) Invalidity

Directions (21-23): **Each of the following questions consists of a word in capital letters, followed by four words or group of words. Select the word that is farthest in meaning to the word in capital letters.**

Q21. STARK

- (a) Mild
- (b) Gruff
- (c) Rugged
- (d) Mulish

Q22. OUTLANDISH

- (a) Quirky
- (b) Atypical
- (c) Conventional
- (d) Crotchety

Q23. RENAISSANCE

- (a) Decadence
- (b) Pestilence
- (c) Prehistory
- (d) Immorality

Directions (24-25): **Select the word which means the same as the group of words given.**

Q24. Strongly supporting a person, principle, or political party, often without considering or judging the matter very carefully.

- (a) Bohemian
- (b) Apostate
- (c) Partisan
- (d) Fanatic

Q25. Having or showing an unselfish concern for the welfare of others.

- (a) Propellant
- (b) Alchemist
- (c) Philanthropist
- (d) Altruistic

Directions (26-30): **Identify the segment in the sentence, which contains the grammatical error.**

Q26. Some players of the team were opposed to use their money to redecorate the locker room.

- (a) Some players of the team were opposed
- (b) to use their money to
- (c) redecorate the locker room.
- (d) No error

Q27. The research suggests that when a person is under depression you should be especially careful to eat a well-balanced diet.

- (a) The research suggests that when
- (b) a person is under depression
- (c) you should be especially careful to eat a well-balanced diet.
- (d) No error

Q28. He would believe the story as if it was true.

- (a) He would believe
- (b) the story as if
- (c) it was true.
- (d) No error

Q29. Big men are those who stand out, vie to others to make a reputation and collect both honours and clients.

- (a) Big men are those who stand out,
- (b) vie to others to make a reputation,
- (c) and collect both honours and clients.
- (d) No error

Q30. I was convinced that the only thing I wanted to do ever is ride cars.

- (a) I was convinced that the
- (b) only thing I wanted to
- (c) do ever is ride cars.
- (d) No error

Directions (31-31): In the following question, there are two statements followed by two conclusions I, II. Read the conclusions and decide which of the conclusions follow(s) the statements.

Q31. **Statement:**

No dog is a cat.

All hen are cats

Some cap are hen.

Conclusions:

I. No hen is a dog

II. At least some cap are cats

- (a) Only conclusion I is true
- (b) Neither conclusion I nor II is true
- (c) Only conclusion II is true
- (d) Both conclusions I and II are true

Q32. In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statement to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statements

(I) All birds are trees.

(II) Some trees are hens.

Conclusion:

- (I) Some birds are hens.
- (II) Some hens are trees.
- (a) Conclusion I follows
- (b) Conclusion II follows

- (c) Neither I nor II follows
- (d) Both I and II follows

Q33. Akram is the son of Shahid. Shahid's sister, Julie has a son Zeeshan and a daughter Yana. Zeba is the sister of Zeeshan's mother. How is Yana related to Zeba?

- (a) Mother
- (b) Granddaughter
- (c) Sister
- (d) Niece

Q34. Select the related word from the given alternatives.

Ice : Coldness :: Earth : ?

- (a) Weight
- (b) Jungle
- (c) Gravitation
- (d) Sea

Q35. Showing a man on the stage, Rita said, "He is the brother of the daughter of the wife of my husband. How is the man on stage related to Rita?"

- (a) Son
- (b) Husband
- (c) Cousin
- (d) Nephew

Q36. If $84 + 96 = 4248$, then $36 + 78 = ?$

- (a) 3918
- (b) 1839
- (c) 3819
- (d) 1938

Q37. Select the one which is different from other three alternatives.

- (a) APPLE
- (b) ANGLE
- (c) AMPLE

(d) APRON

Q38. Choose the correct alternative from the given ones that will complete the series.

78, 155, 309, ?, 1233

- (a) 1230
- (b) 1000
- (c) 617
- (d) 625

Q39. In a certain code 'MONKEY' is written as 'XDJMNL'. How is 'TIGER' written in that code?

- (a) SHFDQ
- (b) QDFHS
- (c) SDFHS
- (d) QDHJS

Q40. A word is followed by four other words, one of which cannot be formed by using the letters of the given word. Find this word?

SUPERIMPOSABLE

- (a) POSSIBLE
- (b) REPOSURE
- (c) SPIRE
- (d) REPTILE

Q41. In this question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement:

- (I) Some authors are teachers.
- (II) No teacher is a lady.

Conclusions:

- (I) Some teachers are not ladies.
- (II) Some ladies are teachers.
- (a) Conclusion I follows
- (b) Conclusion II follows
- (c) Neither I nor II follows

(d) Both I and II follows

Q42. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

AN, EQ, IT, MW, ?

- (a) QZ
- (b) KX
- (c) IV
- (d) ZM

Q43. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

PRQ, UWV, ZBA, ? , JLK

- (a) FHG
- (b) EGF
- (c) DFE
- (d) FGE

Q44. Chandan is 2 years older than Ankit but 1 year younger than Sumit. Ankit is twice as old as Khushboo. If Khushboo's age is 25 years, what is the age (in years) of Sumit?

- (a) 51
- (b) 53
- (c) 52
- (d) 55

Q45. Arrange the given words in the sequence in which they occur in the dictionary.

- i. Yielded
- ii. Yelp
- iii. Yeast
- iv. Yogurt

- (a) ii, iii, iv, i
- (b) iii, ii, i, iv
- (c) iv, i, ii, iii
- (d) i, ii, iii, iv

Q46. In a certain code language, "MATERIAL" is written as "RIALMATE". How is "REMEMBER" written in that code language?

- (a) REMEREBM
- (b) MBEREMER

- (c) MBERREME
- (d) MBERREEM

Q47. In a certain code language, '-' represents 'x', '÷' represents '+', '+' represents '÷' and 'x' represents '-'. Find out the answer to the following question. $35 - 12 + 10 \times 50 \div 14 = ?$

- (a) 31
- (b) 6
- (c) 27
- (d) 15

Q48. Which of the following terms follows the trend of the given list?

ZXYXYXYXY, XYZYXYXY, YXXZYXYXY, YXXYZXYXY, YXXYXZYXY, _____.

- (a) ZXYXYXYXY
- (b) XZYXYXYXY
- (c) XYZYXYXY
- (d) YXXYXZYXY

Q49. Two navy ships start from the same port. Ship A travels 23 km West, then turns to its left and travels 19 km. Ship B travels 19 km West, then turns North and travels 5 km, then turns to its left and travels 4 km. Where is ship A with respect to ship B?

- (a) 14 km South
- (b) 24 km North
- (c) 24 km South
- (d) 14 km North

Q50. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All scissors are knives

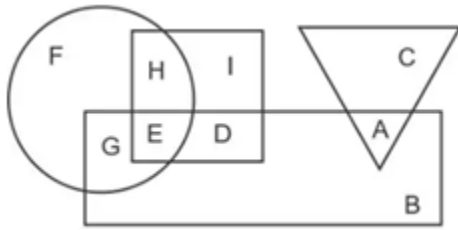
Statement II: Some blades are scissors

Conclusion I: Some knives are blades

Conclusion II: All blades are knives

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both conclusions I and II follow
- (d) Neither conclusion I nor conclusion II follows

Q51. In the following figure, rectangle represents Cinematographers, circle represents Lyricists, triangle represents Trekkers and square represents Joggers. Which set of letters represents Trekkers who are not Joggers?



- (a) ID
- (b) AD
- (c) CI
- (d) AC

Q52. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. HOT, GMQ, FKN, EIK, ?

- (a) CHI
- (b) CGH
- (c) DGH
- (d) DHI

Q53. Present age of Ashok is twice the present age of Kishan. After 7 years the Kishan's age will be 4 times of the Kartik's present age. If Kartik celebrated his 9th birthday 3 years ago, then what will be the present age (in years) of Ashok?

- (a) 82
- (b) 78
- (c) 72
- (d) 84

Q54. In a certain code language, "TURTLE" is written as "RRNRRIA". How is "LOYALS" written in that code language?

- (a) ULJOPY
- (b) JLUYIO
- (c) YOKLJV
- (d) VJLOIP

Q55. In a certain code language, 'x' represents '+', '÷' represents 'x', '-' represents '÷' and '+' represents '-'. Find out the answer to the following question.

$$8 \times 10 \div 20 - 5 + 14 =$$

- (a) 34
- (b) 27
- (c) 45
- (d) 9

Q56. In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation.

Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- (a) 58 – 62
- (b) 18 – 22
- (c) 24 – 28
- (d) 36 – 42

Q57. An auto-rickshaw picks a passenger and travels North 6.5 km, then it turns to its left and rides for another 1.5 km, then it turns South and rides for 2.5 km, then it turns to its left and rides 1.5 km. Where is the auto now with respect to its starting position?

- (a) 9 km North
- (b) 4 km South
- (c) 4 km North
- (d) 9 km South

Q58. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: No bikes are two-wheelers

Statement II: All wheels are bikes

Conclusion I: No two-wheelers are wheels

Conclusion II: All wheels are two-wheelers

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both conclusions I and II follow
- (d) Neither conclusion I nor conclusion II follows

Q59. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- (a) (2, 3, 4)
- (b) (4, 5, 6)
- (c) (6, 7, 8)
- (d) (4, 6, 8)

Q60. In the following question, select the related word pair from the given alternatives.

Room : House :: ? : ?

- (a) Pedal : Rotate
- (b) Student : Study
- (c) Car : Steering

(d) Needle : Clock

Q61. In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- (a) 12 - 24
- (b) 14 - 28
- (c) 44 - 88
- (d) 33 - 88

Q62. In the following question, select the related word pair from the given alternatives.

Road : Asphalt :: ? : ?

- (a) Sugarcane : Sugar
- (b) Cloth : Shirt
- (c) Pen : Pencil
- (d) Metal : Ore

Q63. In the following question, select the related number from the given alternatives.

697 : 976 :: 532 : ?

- (a) 320
- (b) 354
- (c) 237
- (d) 325

Q64. In the following question, select the related letter/letters from the given alternatives.

RTU : SUW :: CEF : ?

- (a) FGI
- (b) DGH
- (c) EGF
- (d) DFH

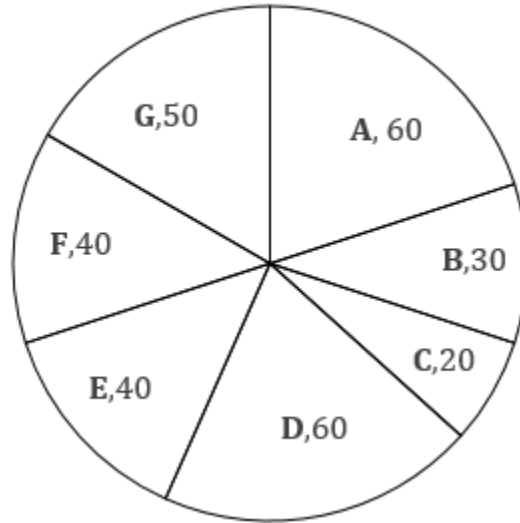
Q65. In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- (a) 27 - 32
- (b) 31 - 36
- (c) 33 - 38

(d) 23 – 27

Directions (66-69); The pie chart shows the distribution of wealth between 7 children according to their father's will. Study the diagram and answer the following questions.

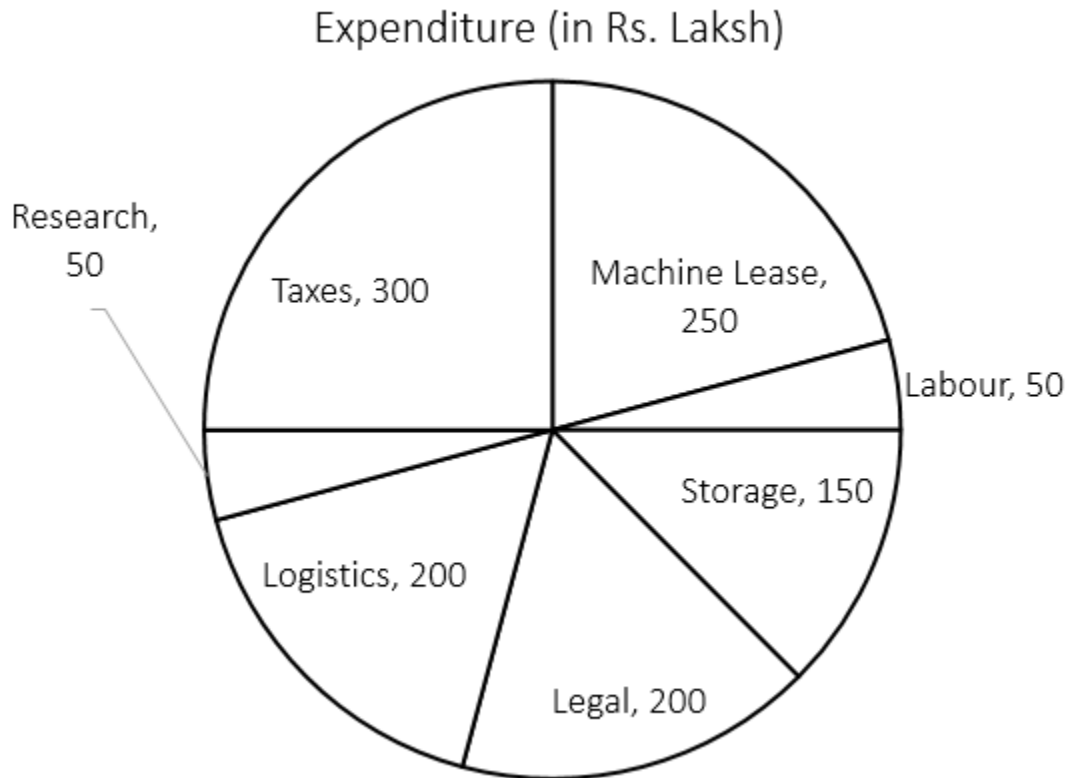
Wealth (in Rs. Lakhs)



- Q66. Which child got the least share of wealth according to the will?
(a) C
(b) B
(c) D
(d) E
- Q67. What is the total wealth (in Rs lakhs) of the father which was distributed according to the will?
(a) 300
(b) 400
(c) 360
(d) 240
- Q68. The measure of the central angle of the sector representing the share of wealth that D gets is _____ degrees.
(a) 72
(b) 60
(c) 50
(d) 75
- Q69. If 40% wealth tax has to be paid on the wealth that each child receives then how much wealth tax (in Rs lakhs) does C have to pay?
(a) 8
(b) 10
(c) 12

(d) 4

Directions (70-73): The pie chart shows the breakup of expenditure of a mining company for the year 2017. Study the diagram and answer the following questions.

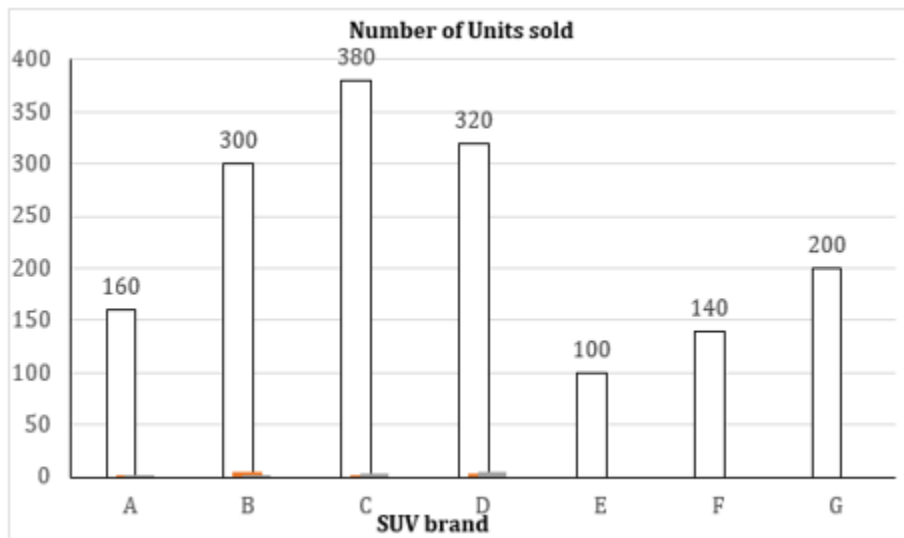


- Q70. The second highest expenditure is for which item?
(a) Labour
(b) Storage
(c) Legal
(d) Machine Lease
- Q71. What is the total expenditure (in Rs lakhs)?
(a) 1200
(b) 900
(c) 1000
(d) 1100
- Q72. The measure of the central angle of the sector representing Machine Lease is _____ degrees.
(a) 70

- (b) 75
- (c) 80
- (d) 90

- Q73. Expenditure on Labour and Research constitute what percent of total expenditure?
- (a) 10%
 - (b) 12%
 - (c) 7.5%
 - (d) 8.33%

Directions (74-77): The bar graph shows the number of SUVs of different brands sold by a dealer in a month. Study the diagram and answer the following questions.

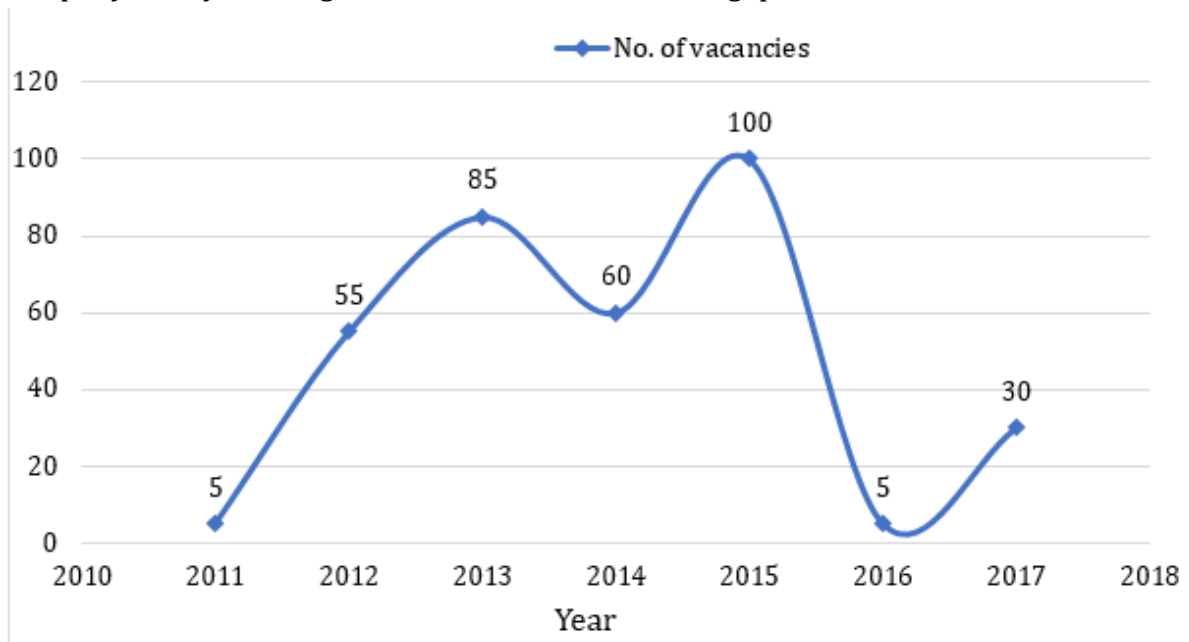


- Q74. Units sold of which SUV brand were the lowest?
- (a) F
 - (b) A
 - (c) E
 - (d) C
- Q75. What is the ratio of units sold of brand G to that of brand A?
- (a) 5 : 4
 - (b) 4 : 5
 - (c) 11 : 14
 - (d) 14 : 11
- Q76. Units sold of brand B was lesser than that of brand D by _____.

- (a) 5%
- (b) 6.67%
- (c) 6%
- (d) 6.25%

- Q77. If the average price of a SUV sold by the dealer is Rs 8 lakhs then what is the sales (in Rs lakhs) of all the SUV sold by the dealer in the month?
- (a) 1280
 - (b) 12000
 - (c) 12800
 - (d) 1200

Directions (78-81): The line shows the number of vacancies for sales officers in a certain company. Study the diagram and answer the following questions.



- Q78. In which year were the number of vacancies lesser than that of the previous year?
- (a) 2015
 - (b) 2012
 - (c) 2016
 - (d) 2013
- Q79. What was the difference in the number of vacancies between the years 2015 and 2012?
- (a) 55
 - (b) 40

- (c) 50
- (d) 45

Q80. The number of vacancies in 2014 were greater than that in 2017 by _____.

- (a) 116.70%
- (b) 50%
- (c) 200%
- (d) 100%

Q81. The salary of a Sales officer in the company is Rs 20,000, then what was the increase in the expense (in Rs lakhs) due to salaries that had to be paid when posts were filled for the vacancies in the year 2015?

- (a) 25
- (b) 15
- (c) 20
- (d) 10

Q82. In a group of 15 women, 7 have nose studs, 8 have ear rings and 3 have neither. How many of these have both nose studs and ear rings?

- (a) 0
- (b) 2
- (c) 3
- (d) 7

Q83. A retailer purchase 40 pens at the cost price of 36 pens from a wholesaler. If he sells all of them at a discount of 3%, then what is his profit percent?

- (a) 9%
- (b) 10%
- (c) $7\frac{7}{9}\%$
- (d) 11%

Q84. I have to reach a certain place at a certain time and I find that I shall be 15 min late, if I walk at 4 km an hour and 10 min early, if I walk at 6 km an hour. How far have I to walk?

- (a) 25 km
- (b) 5 km
- (c) 10 km
- (d) None of these

Q85. A child can do a piece of work, 15 hours slower than a woman. The child works for 18 hours alone then the woman takes charge for 6 hours. In this manner, $\frac{3}{5}$ of the

work is completed. To complete the job now, how much more time will the woman take?

- (a) 20 hrs (b) 12 hrs
(c) 36 hrs (d) 4 hrs

Q86. A tank is filled in 5 hrs by 3 pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?

- (a) 105 hrs (b) 70 hrs
(c) 35 hrs (d) 140 hrs

Q87. In a mixture, sugar and milk are in the ratio 4 : 5. If 7 litres of milk is added to it, then the ratio of sugar and milk in the new mixture becomes 2 : 3. What is the total quantity (In litres) of sugar in new mixture?

- (a) 35
(b) 28
(c) 42
(d) 24

Q88. A boy spends Rs 20 to purchase toffees at Rs 1 each. Next day, he purchased some toffees for Rs 40 with a discount of 50 paise per toffee. What is the average price per toffee (in paise)?

- (a) 45
(b) 60
(c) 40
(d) 55

Q89. A and B can separately do a work in 20 and 15 days respectively. They worked together for 6 days after which B was replaced by C. If the work is finished in next four days, the number of days in which C alone can do the work will be—

- (a) 45 days (b) 35 days
(c) 40 days (d) None of these

Q90. The speeds of three students are in the ratio 2 : 3 : 4. The ratio of the time taken by these students to travel the same distance is

- (a) 2 : 3 : 4 (b) 4 : 3 : 2
(c) 4 : 3 : 6 (d) 6 : 4 : 3

Q91. Pipe A can fill a tank in 4 hrs. and pipe B can fill it in 6 hrs. If they are opened on alternative hour, in how many hours the half tank will be filled?

- (a) 4 hrs. (b) 5 hrs.
(c) $4\frac{2}{3}$ hrs. (d) None of these

Q92. Rs. 12,000 is divided into two parts so that the simple interest on the first part for 3 years at 12% per annum may be equal to the simple interest on the second part for $4\frac{1}{2}$ years at 16% per annum. The ratio of the first part to the second part is

- (a) 2 : 1
- (b) 1 : 2
- (c) 2 : 3
- (d) 3 : 2

Q93. A and B together can do a piece of work in 12 days which B and C together can do in 16 days. After A has been working at it for 5 days, and B for 7 days, C takes up and finishes it alone in 13 days. In how many days could each do the work by himself?

- (a) 8, 16, 24
- (b) 16, 24, 48
- (c) 16, 48, 24
- (d) 8, 24, 48

Q94. A pump can be operated both for filling a tank and for emptying it. The capacity of tank is 2400 m^3 . The emptying capacity of the pump is 10 m^3 per minute higher than its filling capacity. Consequently, the pump needs 8 minutes less to empty the tank to fill it. Find the filling capacity of pump.

- (a) $50\text{ m}^3/\text{min}$
- (b) $60\text{ m}^3/\text{min}$
- (c) $58\text{ m}^3/\text{min}$
- (d) None of these

Q95. A tank is filled in 5 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?

- (a) 20 hrs
- (b) 25 hrs
- (c) 35 hrs
- (d) Cannot be determined

Q96. The cost price of an article is Rs. 7840. What should be the selling price of the article so that there is a profit of 7%?

- (a) Rs. 8000
- (b) Rs. 8300
- (c) Rs. 8388.80

(d) Rs. 8500.50

Q97. Cost of 40 books is equal to the market price of 16 Book. If seller make 100% profit then find the discount percentage given by him to buyer.

- (a) 25%
- (b) $16\frac{2}{3}\%$
- (c) $33\frac{1}{3}\%$
- (d) 20%

Q98. A person bought 100 cars for Rs 40000. If the average price of 60 cars is Rs 500, then what will be the average price (in Rs) of remaining cars?

- (a) 200
- (b) 250
- (c) 300
- (d) 350

Q99. M can complete $\frac{3}{4}$ part of a work in 12 days and N can complete $\frac{2}{7}$ part of the same work in 8 days. In how many days will both complete $\frac{11}{14}$ part of the total work?

- (a) 8
- (b) 9
- (c) 7
- (d) 6

Q100. A train starts moving from a place X at 7:00 a.m. and arrives at another place Y at 1:00 p.m. on the same day. If the speed of the train is 15 m/s, then what will be the distance (in km) covered by the train?

- (a) 324
- (b) 375
- (c) 390
- (d) 245

Solutions

S1. Ans (a)

Sol. The correct answer is option a.
The proper sequence is – RQPS.

S2. Ans (d)

Sol. The correct answer is option d.

A clean pair of heels - It is an idiomatic expression which means, 'Run away extremely fast.'
As per the context, the idiom – 'A clean pair of heels' best fits in the given sentence.
Hence, option (d) is the correct choice.

S3. Ans (c)

Sol. The correct answer is option c.

Blasphemy - The action or offence of speaking sacrilegiously about God or sacred things.
Whereas, meaning of other words –

Archaeology - The study of human history and prehistory through the excavation of sites and the analysis of artefacts and other physical remains.

Anthropology - The study of human societies and cultures and their development.

Philosophy - The study of the fundamental nature of knowledge, reality, and existence, especially when considered as an academic discipline.

Option (c) portrays the same meaning as that of the given group of words & hence it is the correct choice.

S4. Ans (d)

Sol. The correct answer is option d.

Replace 'Enough rich' with 'Rich enough' to make the sentence grammatically and contextually correct. The adverb 'Enough' is used to modify an adjective. In this case, it goes after the adjective it modifies.

For example - She is old enough to earn a living. Here the adverb 'Enough' modifies the adjective 'Rich.'

S5. Ans (a)

Sol. The correct answer is option a.
The proper sequence is – RPQS.

S6. Ans.(b)

Sol. The correct answer is option b.

The word that can be filled in the blank is, 'Following'.

The given passage is about World Press Freedom Day. It states that the UN General Assembly announced May 3 as a world press day after the recommendation adopted at the twenty-sixth session of UNESCO's General Conference. It talks about strengthening journalism&bringing transparency, advancement in journalism. The day acknowledges the changing communications system that is impacting on our health, our human rights, democracies and sustainable development.

As per the context of the passage the word 'Following' fits in properly & hence it is the correct choice.

S7. Ans.(a)

Sol. The correct answer is option a.

The word that can be filled in the blank is, 'Reminder'.

The given passage is about World Press Freedom Day. It states that the UN General Assembly announced May 3 as a world press day after the recommendation adopted at the twenty-sixth session of UNESCO's General Conference. It talks about strengthening journalism&bringing transparency, advancement in journalism. The day acknowledges the changing communications system that is impacting on our health, our human rights, democracies and sustainable development.

As per the context of the passage the word 'Reminder' fits in properly & hence it is the correct choice.

S8. Ans.(c)

Sol. The correct answer is option c.

The word that can be filled in the blank is, 'Serves'.

The given passage is about World Press Freedom Day. It states that the UN General Assembly announced May 3 as a world press day after the recommendation adopted at the twenty-sixth session of UNESCO's General Conference. It talks about strengthening journalism&bringing transparency, advancement in journalism. The day acknowledges the changing communications system that is impacting on our health, our human rights, democracies and sustainable development.

As per the context of the passage the word 'Serves' fits in properly & hence it is the correct choice.

S9. Ans.(d)

Sol. The correct answer is option d.

The word that can be filled in the blank is, 'Strengthen'.

The given passage is about World Press Freedom Day. It states that the UN General Assembly announced May 3 as a world press day after the recommendation adopted at the twenty-sixth session of UNESCO's General Conference. It talks about strengthening journalism&bringing transparency, advancement in journalism. The day acknowledges the changing communications system that is impacting on our health, our human rights, democracies and sustainable development.

As per the context of the passage the word 'Strengthen' fits in properly & hence it is the correct choice.

S10. Ans.(c)

Sol. The correct answer is option c.

The word that can be filled in the blank is, 'Recognizes'.

The given passage is about World Press Freedom Day. It states that the UN General Assembly announced May 3 as a world press day after the recommendation adopted at the twenty-sixth session of UNESCO's General Conference. It talks about strengthening journalism&bringing transparency, advancement in journalism. The day acknowledges the changing communications system that is impacting on our health, our human rights, democracies and sustainable development.

As per the context of the passage the word 'Recognizes' fits in properly & hence it is the correct choice.

S11. Ans (a)

Sol. The correct answer is option a.

Refer to, 'Comedy lies in the timing. Professor Hawking knew this, and over the years, became **incredibly proficient at the art of the comedic pause**. It is a tough art to master.'

S12. Ans (c)

Sol. The correct answer is option c.

Refer to, 'Famed physicist, cosmologist and writer Stephen Hawking was born on 8 January 1942, Stephen Hawking, the TV star exactly 300 years after Galileo died, and he died on 14 March, 2018, **which happened to be his old rival Albert Einstein's birthday**.

S13. Ans (b)

Sol. The correct answer is option b.

Refer to, 'Life would be tragic if it wasn't funny,'**Professor Hawking was an extraordinary man who loved ordinary things**.

Refer to, '**He was diagnosed, aged only 21, he was given only two years to live.**'

Refer to, 'Famed physicist, cosmologist and writer **Stephen Hawking was born on 8 January 1942, Stephen Hawking, the TV star exactly 300 years after Galileo died**, and he died on 14 March, 2018, which happened to be his old rival Albert Einstein's birthday.'

S14. Ans (d)

Sol. The correct answer is option d.

Preposterous - very silly or stupid.

Synonyms - absurd, ridiculous, foolish, stupid, laughable, comical, pointless, senseless, unreasonable, irrational, illogical

Antonyms - realistic, reasonable

S15. Ans (a)

Sol. The correct answer is option a.

Refer to, '**One of my all-time favourites, Stephen Hawking moments came when the Professor sang comedy legends Monty Python's Galaxy Song for a charity a few years ago, correcting the technicalities in the song's words and numbers as he went along.**'

S16. Ans (c)

Sol. The correct answer is option c.

Replace 'or' with 'And' to make the sentence grammatically and contextually correct.

Both ...and - 'Both' is paired with 'And' to add emphasis to two coordinated elements in a sentence.

S17. Ans (d)

Sol. The correct answer is option d.

The error lies in part (d) of the sentence.

Replace 'junior than' with 'junior to' to make the sentence grammatically and contextually correct.

The comparative Adjectives 'superior inferior, senior, junior, prior, anterior, posterior prefer' should be followed by 'To' and not by 'Than'.

S18. Ans.(a)

Sol. Contemplation: serious and quiet thought for a period of time.

Consideration: careful thought, typically over a period of time.

Hence Option A is the correct choice.

S19. Ans.(d)

Sol. Quiver: tremble or shake with a slight rapid motion.

Hence Option D is the correct choice.

S20. Ans.(a)

Sol. Irreverence: a lack of respect for people or things that are generally taken seriously.

Disrespect: lack of respect or courtesy.

Hence Option A is the correct choice.

S21. Ans.(a)

Sol. Stark: harsh and threatening in manner or appearance.

Mild: gentle in nature or behavior; not severe.

Mulish: unreasonably and inflexibly obstinate.

Hence Option A is the correct choice.

S22. Ans.(c)

Sol. Outlandish: strange and unusual.

Conventional: common and ordinary; not unusual.

Crotchety: very grumpy or unpleasant.

Hence Option C is the correct choice.

S23. Ans.(a)

Sol. Renaissance: a period of growth and activity in the areas of art, literature, and ideas.

Decadence: a period of decline.

Hence Option A is the correct choice.

S24. Ans. (c)

Sol. The correct answer is option c.

Partisan - Strongly supporting a person, principle, or political party, often without considering or judging the matter very carefully.

Option (c) portrays the same meaning as that of the given group of words & hence it is the correct choice.

S25. Ans. (d)

Sol. The correct answer is option d.

Altruistic - Having or showing an unselfish concern for the welfare of others.

Option (d) portrays the same meaning as that of the given group of words & hence it is the correct choice

S26. Ans. (b)

Sol. Replace “use” with “using”. To + gerund is used with certain verbs and phrases.

Example: accustomed to, look forward to, owing to, prone to, opposed to etc.

S27. Ans. (c)

Sol. “He” will replace “you” as we are talking about first person singular pronoun, he should be used instead of second person pronoun ‘you’.

S28. Ans. (c)

Sol. If certain expressions like unfulfilled wish / condition / desire in the present state is to be brought into expression with the use of if /as if /as though /I wish /it is time / it is high time, etc. along with which ‘to be’ is used, then only its ‘**were**’ form is used provided whatever be the number and person of the subject.

S29. Ans. (b)

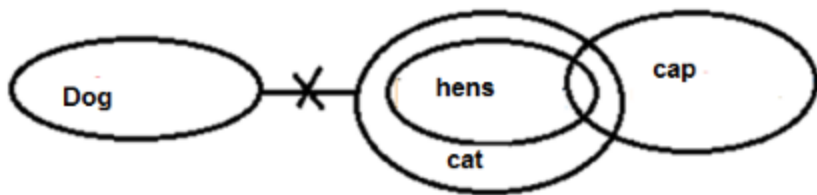
Sol. Correct preposition to use here is “with”. Vie with (one) means to fight, contend, or compete with one (for something).

S30. Ans. (c)

Sol. Replace “is” with “was” as the sentence is in past tense.

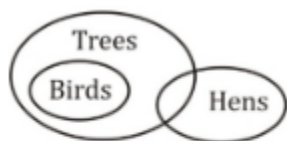
S31. Ans.(d)

Sol.



S32. Ans.(b)

Sol.



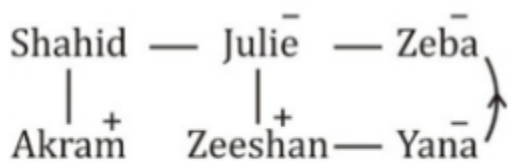
I. ✗

II. ✓

Conclusion II follows.

S33. Ans.(d)

Sol.



Yana is the niece of Zeba.

S34. Ans. (c)

Sol. Coldness is the property of Ice. Similarly, Gravitation is the property of Earth.

S35. Ans. (a)

Sol. Wife of Rita's husband means Rita herself.

Brother of Rita's daughter means son of Rita.

Therefore, B is uncle of C.

S36. Ans. (b)

Sol.

$$84 + 96 = 4248$$

$$\rightarrow \frac{84}{2}, \frac{96}{2} \rightarrow 42; 48 \rightarrow 4248$$

Therefore,

$$\rightarrow \frac{36}{2}, \frac{78}{2} \rightarrow 18; 39 \rightarrow 1839$$

S37.Ans. (d)

Sol. Except in the word APRON, in all other words, the first and the last letters are Vowels.

S38.Ans. (c)

Sol.

$$78 \times 2 - 1 = 155$$

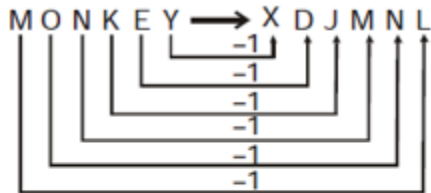
$$155 \times 2 - 1 = 309$$

$$309 \times 2 - 1 = \mathbf{617}$$

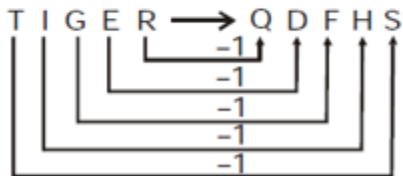
$$617 \times 2 - 1 = 1233$$

S39.Ans. (b)

Sol.



Similarly,



S40.Ans. (d)

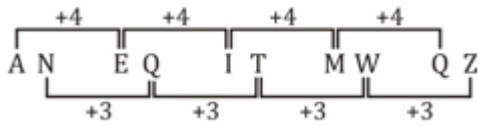
Sol. There is no 'T' letter in the key word.

S41. Ans.(a)



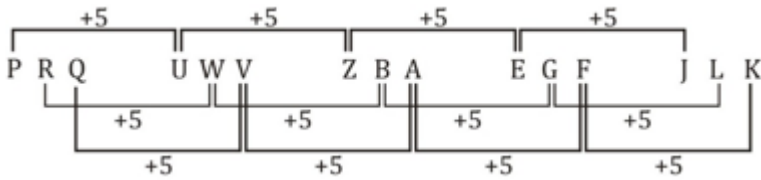
Sol.

S42. Ans.(a)



Sol.

S43. Ans.(b)



Sol.

S44. Ans.(b)

Sol.

Let age's of Chandan, Ankit, Sumit and Khushboo be C, A, S, K respectively.

$$\therefore C = A + 2$$

$$C = S - 1$$

$$A = 2K$$

$$\therefore A = 2 \times 25 \text{ (AS K = 25)}$$

$$\therefore A = 50$$

$$C = 50 + 2$$

$$= 52$$

$$\therefore S = C + 1$$

$$= 52 + 1$$

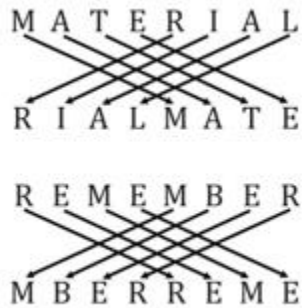
$$= 53$$

S45. Ans.(b)

Sol. Yeast → Yelp → Yielded → Yogurt

S46. Ans.(c)

Sol.



S47. Ans.(b)

Sol.

$$\begin{aligned} & 35 - 12 + 10 \times 50 \div 14 \\ & = 35 \times 12 \div 10 - 50 + 14 \\ & = 42 - 50 + 14 = 6 \end{aligned}$$

S48. Ans.(d)

Sol.

XYXYXZYX

S49. Ans.(c)

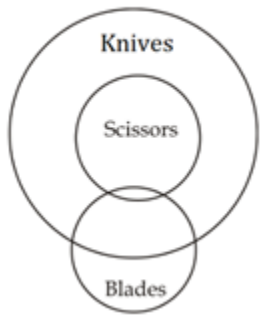
Sol.



S50. Ans.(a)

Sol.

Only conclusions I follows



S51. Ans.(d)

Sol.

AC

S52. Ans.(c)

Sol.



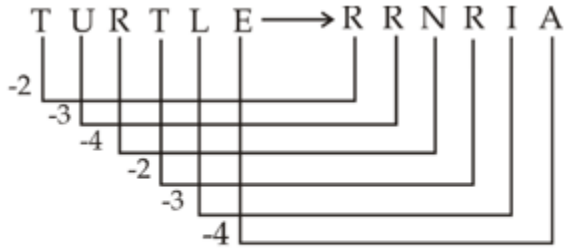
S53. Ans.(a)

Sol.

Kartik's present age = $9 + 3 = 12$ years
 After 7 years, Kishan's age = $12 \times 4 = 48$ years
 \therefore present age of Kishan = $48 - 7 = 41$ years
 Present age of Ashok = $41 \times 2 = 82$ years

S54. Ans.(b)

Sol.



\therefore LOYALS \longrightarrow JLUYIO

S55. Ans.(a)

Sol.

$$8 \times 10 \div 20 - 5 + 14 =$$

$$8 + 10 \times 20 \div 5 - 14 = 8 + 10 \times 4 - 14 = 34$$

S56. Ans.(d)

Sol.

$$58 \xrightarrow{+4} 62$$

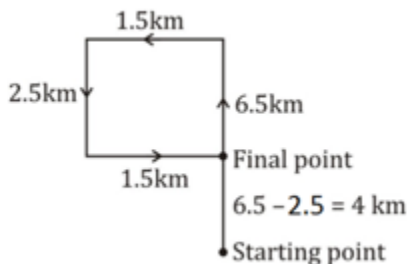
$$18 \xrightarrow{+4} 22$$

$$24 \xrightarrow{+4} 28$$

$$36 \xrightarrow{+4} 40 \text{ not } 42$$

S57. Ans.(c)

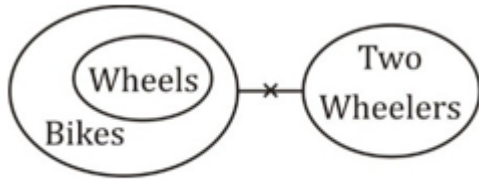
Sol.



The auto is at a distance of 4km in the North direction from the starting point.

S58. Ans.(a)

Sol.



Only conclusion I follows

S59. Ans.(d)

Sol. +1 series except in (4, 6, 8)

S60. Ans.(d)

Sol. Room is present in House.

Needle is present in clock.

S61. Ans.(d)

Sol.

×2 pattern

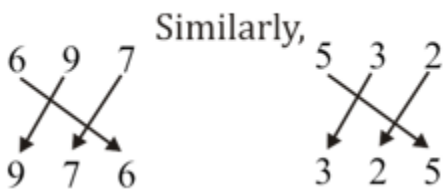
S62. Ans.(d)

Sol. As Asphalt is used for making or surfacing roads. Similarly, Ore is used to make metals.

S63. Ans.(d)

Sol.

As



S64. Ans.(d)

Sol.

$$\begin{array}{ccc} R & T & U \\ +1 \downarrow & +1 \downarrow & +2 \downarrow \\ S & U & W \end{array}$$

Similarly,

$$\begin{array}{ccc} C & E & F \\ +1 \downarrow & +1 \downarrow & +2 \downarrow \\ D & F & H \end{array}$$

S65. Ans.(d)

Sol.

$$27 + 5 = 32$$

$$31 + 5 = 36$$

$$33 + 5 = 38$$

$$23 + 5 = 28 \neq 27$$

S66. Ans.(a)

Sol.

C's share of 20 lakhs is the least.

S67. Ans.(a)

Sol.

$$\begin{aligned} \text{Total wealth} &= 60 + 30 + 20 + 60 + 40 + 40 + 50 \\ &= 300 \text{ lakhs} \end{aligned}$$

S68. Ans.(a)

Sol.

$$\text{Central angle for D} = \frac{60}{300} \times 360^\circ = 72^\circ$$

S69. Ans.(a)

Sol.

C's share of = 20 lakhs

$$\text{Wealth tax paid by C} = 20 \times \frac{40}{100} = 8 \text{ lakhs}$$

S70. Ans.(d)

Sol.

By seeing diagram we get

Ist highest expenditure = Taxes

And IInd highest expenditure = machine lease

S71. Ans.(a)

Sol.

Total expenditure = $300 + 250 + 50 + 150 + 200 + 200 + 50$
= 1200 (in Rs lakhs)

S72. Ans.(b)

Sol.

$$\text{Required angle} = \frac{250}{1200} \times 360 = 75^\circ$$

S73. Ans.(d)

Sol.

Total expenditure on labour and research = $50 + 50 = 100$

$$\text{Required percentage} = \frac{100}{1200} \times 100 = 8.33$$

S74. Ans.(c)

Sol.

Units sold SUV brand E (100) were the lowest.

S75. Ans.(a)

Sol.

$$\text{Required ratio} = 200 : 160 = 5 : 4$$

S76. Ans.(d)

Sol.

$$\begin{aligned} \text{Required percentage} &= \frac{320 - 300}{320} \times 100 = \frac{20}{320} \times 100 \\ &= \frac{25}{4} = 6.25\% \end{aligned}$$

S77. Ans.(c)

Sol.

Total number of SUV's that were sold
 $= 160 + 300 + 380 + 320 + 100 + 140 + 200$
 $= 1600$

Total sales (in lakhs) of all the SUV sold by the dealer
 $= 1600 \times 8 = 12800$ lakhs

S78. Ans. (c)

Sol. Out of the 4 options only in 2016, the number of vacancies are lesser than that of the previous year.

S79. Ans.(d)

Sol. Required difference = $100 - 55 = 45$

S80. Ans.(d)

Sol.

Required percentage
 $= \frac{60 - 30}{30} \times 100 = 100\%$

S81. Ans. (c)

Sol.

Required increase in the expenses
 $= 100 \times 20,000$
 $= \text{Rs. } 20 \text{ lakhs}$

S82. Ans.(c);

Sol.

No. of women who have either nose studs or ear rings = $(15 - 3) = 12$
 \therefore No. of those who have both nose studs and ear rings = $(8 + 7) - 12 = 3$

S83. Ans.(c);

Sol.

Let C.P. of pen = 1
 C.P. of 40 pens = $36 \times 1 = 36$
 S.P. of 40 pen = $40 - 3\% \text{ of } 40 = 38.80$
 $\% \text{ profit} = \left[\frac{38.80 - 36}{36} \right] \times 100 = 7\frac{7}{9}\%$

S84. Ans.(b);

$$\text{Distance} = 4 \times \left(T + \frac{15}{60}\right)$$

$$D = 4 \times (T) + 1 \dots\dots\dots(i)$$

And,

$$D = 6 \left(T - \frac{10}{60}\right)$$

$$D = 6T - 1 \dots\dots\dots(ii)$$

From (i) and (ii)

$$4T + 1 = 6T - 1$$

$$T = 1 \text{ hour}$$

$$\text{So, } D = 6 \times 1 - 1 = 5 \text{ km}$$

Sol.

S85.

Ans.(b);

Suppose women take x hrs to complete work.

Then child will complete in $(x + 15)$ hrs.

A.T.Q.—

$$\frac{18}{(x + 15)} \text{ work} + \left(\frac{6}{x}\right) \text{ work} = \frac{3}{5} \text{ work}$$

$$\frac{18x + 6(x + 15)}{x(x + 15)} = \frac{3}{5}$$

$$x^2 - 25x - 150 = 0$$

$$x = 30$$

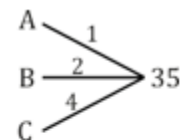
Sol.

$$\text{So, } \frac{2}{5} \text{ work is completed by a woman in } \frac{2}{5} \times 30 = 12 \text{ hr}$$

S86.

Ans.(c);

Sol.



$$\Rightarrow 7 \text{ unit per hr.}$$

$$\text{Total time} = 5 \text{ hrs}$$

$$\text{Total work} = 35 \text{ hrs.}$$

$$\text{Time taken by A} = \frac{35}{1} = 35 \text{ hrs}$$

S87. Ans. (b)

Sol.

We have,

$$\begin{array}{l} S \quad \quad M \\ 4 \quad : \quad 5 \\ 2_{s2} \quad : \quad 3_{s2} \end{array} \left. \vphantom{\begin{array}{l} S \quad \quad M \\ 4 \quad : \quad 5 \\ 2_{s2} \quad : \quad 3_{s2} \end{array}} \right\} 1 \xrightarrow{\times 7} 7 \text{ litres}$$

$$\therefore 4 \longrightarrow 28 \text{ litres}$$

S88. Ans. (b)

Sol.

Day	₹	No. of toffees
	20	20
	40	80
<hr/>		
	60	100

$$\therefore \text{Avg. price per toffee} = \frac{60}{100} \times 100 = 60 \text{ paisa/toffee}$$

S89. Ans.(c)

Sol.

$$\text{Work done by A \& B in 6 days} = \left(\frac{A+B}{A \times B} \right) \times 6$$

$$= \left(\frac{20 + 15}{20 \times 15} \right) \times 6 = \frac{7}{10}$$

$$\text{Remaining work} = 1 - \frac{7}{10} = \frac{3}{10}$$

$$\text{Work done by A \& C in 4 days} = \left(\frac{A+C}{A \times C} \right) \times 4 = \frac{3}{10}$$

$$\left(\frac{20 + C}{20 \times C} \right) \times 4 = \frac{3}{10}$$

$$C = 40 \text{ days}$$

S90. Ans.(d)

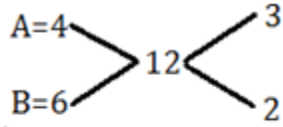
Sol.

$$\text{time} \propto \frac{1}{\text{speed}}$$

$$\text{Req. ratio} = \frac{1}{2} : \frac{1}{3} : \frac{1}{4} = 6 : 4 : 3$$

S91. Ans. (d)

Sol.



A & B filled tank in 2 hours = 3+2=5units

Total time required to fill half tank i.e 6 units = $2 + \frac{1}{3}$ hr.

= $2\frac{1}{3}$ hours.

S92. Ans.(b)

Sol.

Let two parts be x : y

$$\frac{x \times 3 \times 12}{100} = \frac{y \times 16 \times 9}{200}$$

$$x : y = 1 : 2$$

S93. Ans.(c)

Sol.

A + B → 12 days , B + C → 16 days , 5A + 7B + 13C = 1

5(A + B) + 2(B + C) + 11C = 1

$$\frac{5}{12} + \frac{2}{16} + \frac{11}{x} = 1$$

$$\frac{11}{x} = 1 - \frac{5}{12} - \frac{1}{8}$$

$$\frac{11}{x} = \frac{24 - 10 - 3}{24}$$

$$\frac{11}{x} = \frac{11}{24}, x = 24 \text{ days}$$

$$\frac{1}{B} + \frac{1}{24} = \frac{1}{16}$$

$$\frac{1}{B} = \frac{1}{16} - \frac{1}{24}$$

$$\frac{1}{B} = \frac{3-2}{48}, B = 48 \text{ days}$$

$$\frac{1}{A} + \frac{1}{48} = \frac{1}{12}$$

$$\frac{1}{A} = \frac{1}{12} - \frac{1}{48}$$

$$\frac{1}{A} = \frac{4-1}{48}$$

$$A = 16 \text{ days}$$

S94. Ans.(a)

Sol.

Filling capacity $\Rightarrow x \text{ m}^3/\text{min}$

Emptying capacity = $(x + 10) \text{ m}^3/\text{min}$

ATQ,

$$\frac{2400}{x} - \frac{2400}{x + 10} = 8$$

$$2400 \left(\frac{x + 10 - x}{x(x + 10)} \right) = 8$$

$$3000 = x(x + 10)$$

$$50 \times 60 = x(x + 10)$$

$$x = 50 \text{ m}^3/\text{min}$$

S95. Ans.(c)

Sol.

$$A + B + C = 5h$$

$$C = 2 \times B$$

$$C : B = 2 : 1$$

$$B : A = 2 : 1$$

$$\text{Efficiency} \rightarrow C : B : A = 4 : 2 : 1$$

$$\text{day} \left(\propto \frac{1}{\text{Efficiency}} \right) C : B : A = \frac{1}{4} : \frac{1}{2} : 1 = 1 : 2 : 4$$

$$A \rightarrow 4x \text{ hours}$$

$$B \rightarrow 2x \text{ hours}$$

$$C \rightarrow x \text{ hours}$$

$$\frac{1}{x} + \frac{1}{2x} + \frac{1}{4x} = \frac{1}{5}$$

$$\frac{4 + 2 + 1}{4x} = \frac{1}{5}$$

$$x = \frac{35}{4}$$

$$\text{Time taken by pipe A to fill the tank} = 4x = \frac{35}{4} \times 4 = 35 \text{ hours}$$

S96. Ans.(c)

Sol.

$$\text{C.P.} = \text{Rs. } 7840, \text{ Profit} = 7\%.$$

$$\therefore \text{S.P.} = \text{Rs.} \left(\frac{107}{100} \times 7840 \right) = \text{Rs. } 8388.80$$

S97. Ans.(d)

Sol.

CP of 40 books = MP of 16 books

$$CP \times 40 = MP \times 16$$

$$\frac{CP}{MP} = \frac{2}{5}$$

Let CP = 2n

$$MP = 5n$$

$$SP = 2n + \frac{2n \times 100}{100} = 4n$$

$$\text{Required Discount \%} = \frac{5n - 4n}{5n} \times 100\% = 20\%$$

S98. Ans.(b)

Sol.

Sum of the price of the 60 cars = $500 \times 60 = 30000$

Sum of price of remaining 40 car = 10000

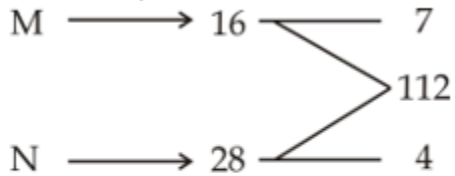
Avg. price (in Rs.) of remaining cars

$$= \frac{10,000}{40} = \text{Rs. } 250$$

S99. Ans.(a)

Sol.

We have,



$$\frac{11}{14} \text{ part of total work} = 112 \times \frac{11}{14} = 88$$

$$\text{Required time} = \frac{88}{11} = 8 \text{ days}$$

S100. Ans.(a)

Sol.

$$D = S \times T$$

We have,

$$S = 15 \text{ m/s} = 15 \times \frac{18}{5} = 54 \text{ km/h}$$

$$T = 6 \text{ hrs}$$

$$\therefore D = 54 \times 6 = 324 \text{ km}$$