

Direction (1-6): Read the passage carefully then answer the questions given below.

People have long circulated news via word-of-mouth, and as language evolved into writing and literacy – and governments played larger roles in people's lives – sharing information became a necessity. However, **disseminating** news and information on paper presented significant challenges. When each copy had to be handwritten, mass distribution was impossible. They were first chiseled in stone or metal; later, they were handwritten and distributed in public forums or read from scrolls by town criers. Though both ancient Romans and Chinese – as well as other ancient civilizations – had early forms of news media, they do not qualify as newspapers because they could not be mass-distributed. The first true newspapers arrived after Johannes Gutenberg introduced his movable type printing press to the European world around 1440. Though printing presses with movable type had existed in eastern Asia for around two centuries, they never made it to Europe; furthermore, Gutenberg's version made it significantly faster to mass produce documents. By 1500, the printing press had made its way throughout Europe, and news sheets (or news books) were mass-distributed.

The first weekly newspaper was published in Germany by Johann Carolus in 1604. Called Relation aller Fürnemmen und gedenckwürdigen Historien, the publication satisfied the four tenets of a "true" newspaper: Accessibility by the public , Published at a regular interval (daily, weekly, monthly, etc.) ,Information is current ,Covers a variety of topics (politics, events, entertainment, sports, etc.) Despite meeting the requirements for a newspaper, there is some debate as to whether The Relation qualifies as the world's first newspaper since it was printed in quarto, not folio, size. It's worth noting the World Association of Newspapers considers The Relation the first true newspaper.'

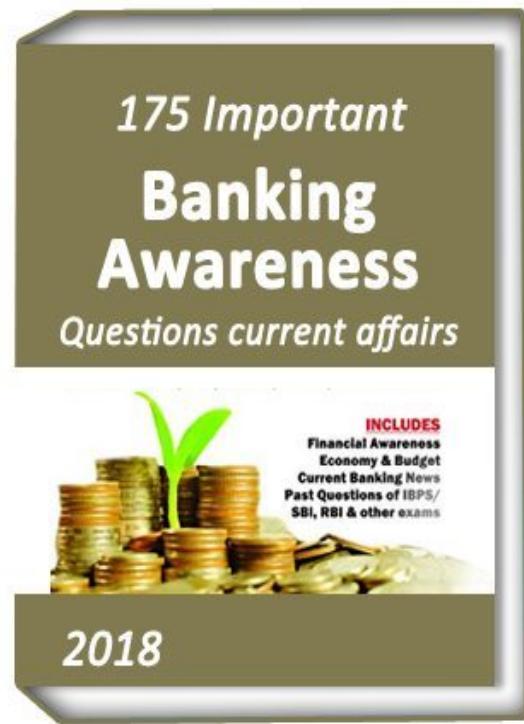
Other German newspapers followed, and in 1618 the world's first broadsheet newspaper printed in folio size was published in Amsterdam, called Courante uyt Italien, Duytslandt, &c. The newspaper format soon spread throughout Europe, with newspapers published in Spain, France, and Sweden. The first English newspaper was published in 1665 in Oxford, England. Known as the Oxford Gazette, the newspaper moved to London in 1666 and was renamed the London Gazette. It's still being published

Q1. Which of the following options is satisfying the condition for being a tenant of a "true newspaper"?

- (a) A newspaper which is accessible to only Asian readers.
- (b) A newspaper which was published once in a month.
- (c) A newspaper which was printed in quarto, not folio, size
- (d) A newspaper which covers historic developments leading to various events.
- (e) A newspaper which is printed in press and is not handwritten.

Q2. Which of the following options is false according to the passage?

- (a).The relation was not the first newspaper as it did not meet all the required conditions.
- (b) Information on paper was only possible after the introduction of press.
- (c) The concept of newspaper was rejected in Europe earlier.
- (d) London Gazette is the first newspaper to be published in the multiple languages.
- (e) All are incorrect



Q3. What paved the way for the “true newspapers”?

- (a) The world's first broadsheet newspaper printed in folio size
- (b) The invention of the printing press paved the way for “true” newspapers.
- (c) The technology which allowed it to be printed in multiple languages.
- (d) As the Governments started playing a larger role in people's lives
- (e) None of these.

Q4. Which of the following statement is true regarding newspapers?

- (a) The first weekly newspaper was published in Germany by Johann Carolus in 1904.
- (b) The Relation qualifies as the world's first newspaper since it was printed in folio, not quarto.
- (c) The first English newspaper was published in 1695 in Oxford, England known as the Oxford Gazette.
- (d) The world's first broadsheet newspaper printed in quarto size was published in Amsterdam, called Courante uyt Italien, Duytslandt, &c.
- (e) The first English newspaper known as the Oxford Gazette, was renamed the London Gazette later.

Q5. Choose the word which is most nearly the **SIMILAR in meaning to the word ‘disseminating’ printed in bold as used in the passage.**

- (a) Agree
- (b) Taunt
- (c) Barb
- (d) Sneer
- (e) Spread

Q6. In ancient time what was the biggest challenge that the people had to face while circulating the news?

- (a) The biggest challenge was of printing the news on a paper
- (b) Earlier each copy had to be handwritten; mass distribution was next to impossible.
- (c) It was a herculean task for the editors to get an affirmation by government for printing the news
- (d) Both (a) and (c)
- (e) All are incorrect

Directions (7-10): In each of the questions given below a part of the sentence is given in bold. It is then followed by three options. Find the alternative that can replace the given bold part to make the sentence grammatically and contextually correct. If none of the alternatives is correct and the sentence is correct as it is then select option (e) as your choice.

Q7. Economist Deena Khatkhate, **who will pass away at the age of 92 on September 15 in Bethesda, Maryland, in the US, was an unusual man.**

- (i) who passed away
 - (ii) who shall passed away
 - (iii) who has passed away
- (a) Only (ii)
 - (b) Both (i) and (iii)
 - (c) Both (ii) and (iii)
 - (d) Only (iii)
 - (e) No correction required

Q8. A misogynist is a person **who is hating** women.

- (i) Who are hating
- (ii) Who have hate
- (iii) Who hates
- (a) Both (i) and (iii)
- (b) Only (i)
- (c) Both (ii) and (iii)
- (d) Only (iii)
- (e) No correction required

Q9. Samira **is the better of the two girls** when it comes to solving

hard mathematic problems.

- (i) is the better of two girls
- (ii) is better of the two girls
- (iii) is better of two girls
- (a) Only (i)
- (b) Only (ii)
- (c) Both (ii) and (iii)
- (d) Both (i) and (iii)
- (e) No correction is required

Q10. There are two novels on the table which needs to be read before the exams, but **neither one are interesting**.

- (i) neither one has interested
- (ii) neither one is interesting
- (iii) neither one were interesting
- (a) Only (i)
- (b) Both (i) and (ii)
- (c) Only (ii)
- (d) Both (i) and (iii)
- (e) No correction is required

Directions (11-17): Each question below has one blank, which is indicating that something has been omitted. Find out which option can be used to fill up the blank in the sentence in the same sequence to make it meaningfully complete.

Q11. Homemade gifts can be completely _____ to what the recipient likes.

- (a) Alters
- (b) Firmed
- (c) Tailored
- (d) Polite
- (e) Liability

Q12. After much thought, Ted _____ not to travel abroad this summer.

- (a) Resolved
- (b) Concludes
- (c) Resolves
- (d) Commence
- (e) Passed

Q13. Bryan is _____ in his belief that the earth is flat.

- (a) Tentative
- (b) Hasten
- (c) Unlikely
- (d) Provided
- (e) Confident

Q14. The noodle maker was _____ in making his noodles and would never let another person take over the task.

- (a) Careless
- (b) Negligent
- (c) Cautious
- (d) Exciting
- (e) Inattentive

Q15. If it weren't for the _____ circumstances, he would have certainly lost his job.

- (a) Sharp
- (b) Intensify
- (c) Mitigating
- (d) Increase
- (e) Aggravate

Q16. When asked about her father, she lost her outward enthusiasm and became rather_____.

- (a) Reserved
- (b) Expansive
- (c) talkative
- (d) Extrovert
- (e) Outgoing

Directions (17-20): In each of the questions given below four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other. If the sentence is correct as it then select option (e) as your choice.

Q17. Some American officials **lead (A) to hope that **resumed** (B) sanctions on Iran will **appear** (C) to a popular **uprising** (D).**

- (a) A-B
- (b) A-C
- (c) B-D and A-C
- (d) A-D
- (e) The sentence is correct

Q18. Tariffs **(A)** has imported **(B)** higher China **(C)** on 603 items imposed **(D)** from the US.

- (a) Only A-B
- (b) Only B-C
- (c) Both A-B and B-D
- (d) Both A-C and B-D.
- (e) The sentence is correct.

Q19. NATO ally world **(A)** leads the Turkey **(B)** in the journalists **(C)** of number **(D)** jailed.

- (a) A-B and C-D
- (b) Only B-C
- (c) A-C and B-D
- (d) A-D
- (e) The sentence is correct.

Q20. In 2016, rising **(A)** violence in Pathankot **(B)** by Islamic militants culminated **(C)** in attacks on Indian forces at Uri and Kashmir **(D)**.

- (a) Both A-C and B-D
- (b) Both A-D and B-C
- (c) Only B-D.
- (d) C-D
- (e) The sentence is correct.

Direction (21-24): Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is 'No error', the answer is (e). (Ignore errors of punctuation, if any.)

Q21. She held something (a) / at her side which (b) / was totally hiding (c) / by the folds of her sari. (d) / No error. (e)

Q22. The father forbade his son (a) / to walk in the sun (b) / and play with (c) / his friends on the road (d) / No error (e)

Q23. The movement, which aims to (a) / raise awareness about climate change, hopes (b) / to bring people together to think about (c) / what they can do for reduce harmful pollution. (d) / No error (e)

Q24. I declined the invitation (a) / not because I did not (b) / want to go but (c) / because I have no time. (d) / No error (e)

Directions (25-30): In the following passage, some of the words have been left out, each of which is indicated by a number. Find the suitable word from the options given against each number and fill up the blanks with appropriate words to make the paragraph meaningfully complete.

Stanford economist Nicholas Bloom is a true believer, and like many true believers, he lets his message _(25)_ his evidence. Based on a single study of a Chinese travel agency, he _(26)_ declares working from home a "future-looking technology" with "enormous potential." Not so fast.

Bloom's study comes with serious limitations and is contradicted by a later Gallup report. However, while it is far too soon to draw broad **(27)** from his findings, savvy business leaders can read between the lines and extract some valuable lessons for working **(28)** with all employees.

Bloom **(29)** on China's biggest travel agency, Ctrip, which wanted to expand while controlling office space costs. They **(30)** a remote work trial, expecting that productivity would slip a little, but not enough to cancel out the savings. Instead, productivity shot up 13%, and attrition dropped 50%. When the work from home option was rolled out to the entire company and employees were given a choice, the productivity gains were 22%.

Q25. (a) cut

(b) outrun

(c) exceeded

(d) begin

(e) choose

Q26. (a) fast

(b) enthusiastically

(c) slowly

(d) eager

(e) appropriately

Q27. (a) resulting

(b) disappointments

(c) conclusions

(d) exercises

(e) guarantees

Q28. (a) optimally

(b) extremely

(c) competitively

(d) abroad

(e) everywhere

Q29. (a) emphasising

(b) concentrates

(c) learned

(d) matched

(e) focused

Q30. (a) establishes

(b) appointed

(c) brought

(d) instituted

(e) sold

Directions (31-35): Study the following information carefully and answer the questions given below:

Nine boxes named P, Q, R, S, T, U, V, W and X are placed one above other but not necessarily in the same order. Only five boxes are placed between P and R. T is placed immediate above R. Only three boxes are placed between T and S. As many boxes placed between P and S as between Q and T. U is placed below Q, but not at bottom. More than four boxes are placed between T and U. One box is placed between U and V. Box X is placed above box W.

Q31. Which box is placed at bottom?

- (a) P
- (b) S
- (c) T
- (d) X
- (e) V

Q32. How many boxes are placed between X and P?

- (a) one
- (b) two
- (c) three
- (d) four
- (e) more than four

Q33. If in a certain way S is related to X and P is related to W then by which among the following Q is related?

- (a) P
- (b) V
- (c) R
- (d) T
- (e) S

Q34. Which box is placed immediate above and immediate below Q?

- (a) R and W
- (b) X and U
- (c) U and S
- (d) S and X
- (e) T and R

Q35. What is the position of W ?

- (a) fourth from the top
- (b) fifth from the top
- (c) third form the bottom
- (d) sixth from the bottom
- (e) forth from the bottom

Directions (36-40): Study the information and answer the following questions:

In a certain code language

Get details for venue --- fe wi mo rs

Venue book required details --- rs gt rd wi

Details required book guest --- wi gt rd ra

Guest get more venue ---- ra fe gk rs

Q36. What is the code for 'details' in the given code language?

- (a) fe
- (b) mo
- (c) wi
- (d) ra
- (e) None of these

Q37. What is the code for the word 'guest venue' in the given code language?

- (a) gt gk
- (b) fe mo
- (c) rs ra
- (d) gt ra
- (e) None of these

Q38. What is the code for the word 'get' in the given code language?

- (a) gt
- (b) fe
- (c) rs
- (d) rd
- (e) None of these

Q39. If the code for the words 'for ____' is coded as 'mo gk' in the coded language then what will be the missing word?

- (a) book
- (b) required
- (c) guest
- (d) more
- (e) either (a) or (d)

Q40. What is the code for 'book' in the given code language?

- (a) rs
- (b) gt
- (c) rd
- (d) kl
- (e) either (b) or (c)

Directions (41-45): Study the following information carefully and answer the given questions:

Eight friends A, B, C, D, W, X, Y and Z are sitting around a square table in such a way that four of them sit at four corners of the square while the other four sit in the middle of each sides. The ones who sit at the four corners face outside while those who sit in the middle of the sides face inside.

C is an immediate neighbor of A, who faces center. W sits second to the left of C. Y sits fourth to the left of W. Two persons sit between Y and D (either from left or right). C is not an immediate neighbor of D. B sits second to the right of D. X sits second to the right of B.

Q41. How many persons sits between Z and C when counted from left of Z?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) More than three

Q42. What is the position of Y with respect to D?

- (a) Third to the right
- (b) Second to the right
- (c) Fourth to the left
- (d) Third to the left
- (e) None of these

Q43. Four of the following five are alike in a certain way and so form a group. Who among the following does not belong to that group?

- (a) Z
- (b) W
- (c) D
- (d) C
- (e) Y

Q44. Who sits second to the right of A?

- (a) B
- (b) X
- (c) Y
- (d) D
- (e) None of these

Q45. Who among the following sits between B and C, when counted from the right of B?

- (a) Y and Z
- (b) W and D
- (c) X and Y
- (d) A and W
- (e) A and D

Directions (46-50): In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer

Q46. Statement: $L \leq T \leq I \geq M < X$, $W < P \leq L \geq B \geq K$

I. $K < X$ **II.** $W > M$

- (a) if only conclusion II is true.
- (b) if only conclusion I is true.
- (c) if neither conclusion I nor II is true.
- (d) if either conclusion I or II is true.
- (e) if both conclusions I and II are true.

Q47. Statement: $Z < U \leq D \leq A \leq M < S$, $Q > A \leq Y < G$

I. $Z < Y$ **II.** $S > Q$

- (a) if both conclusion I and II are true.
- (b) if only conclusion I is true.
- (c) if neither conclusion I nor II is true.
- (d) if either conclusion I or II is true.
- (e) if only conclusion II is true.

Q48. Statement: $L \leq T \leq I \geq M < X$, $W < P \leq L \geq B \geq K$

I. $K \geq M$ **II.** $P > M$

- (a) if only conclusion II is true.
- (b) if either conclusion I or II is true.
- (c) if neither conclusion I nor II is true.
- (d) if only conclusion I is true.
- (e) if both conclusions I and II are true.

Q49. Statement: $Z < U \leq D \leq A \leq M < S$, $Q > A \leq Y < G$

I. $M \geq U$ **II.** $G > Z$

- (a) if only conclusion II is true.
- (b) if only conclusion I is true.
- (c) if neither conclusion I nor II is true.
- (d) if either conclusion I or II is true.
- (e) if both conclusions I and II are true.

Q50. Statement: $J > K \geq H = U \geq B \leq T < F \leq R$

I. $J > B$ **II.** $H < R$

- (a) if only conclusion II is true.
- (b) if either conclusion I or II is true.
- (c) if neither conclusion I nor II is true.
- (d) if only conclusion I is true.
- (e) if both conclusions I and II are true.

Q51. How many such pairs of letters are there in the word “Streaming” having same number of letters between them as they have between them according to the alphabetical order.

- (a) Two
- (b) More than Three
- (c) Three
- (d) One
- (e) None of these

Q52. Find the odd one out?

- (a) JQK
- (b) BYC
- (c) LRM
- (d) CXD
- (e) OPX

Direction (53-55): Study the information and answer the following questions:

D is 20m in south of A. C is 5m east of D. E is 10m north of C. F is 10m east of E. G is 15m south of F. X is 15m west of G. B is 10m to the east of A. Z is 10m to the south of B. L is 10m to east of C.

Q53. In which direction is point A with respect to point G?

- (a) North-west
- (b) South-east
- (c) North
- (d) South-west
- (e) North-east

Q54. Four of the following are alike in a certain way so form a group, which of the following does not belong to that group?

- (a) EF
- (b) EC
- (c) LG
- (d) BZ
- (e) CL

Q55. What is distance between point F and L?

- (a) 10m
- (b) 5m
- (c) 15m
- (d) 20m
- (e) 25m

Directions (56-60): Study the information and answer the following questions:

Eight persons K, L, M, N, O, P, Q and R sitting in a row. Some of them are facing north while some are facing south. N sits fifth to the right of M but none of them sits at an extreme end. Q sits third to the right of N. L sits second to the right of Q. Only one person sits between L and P. R sits third to the left of P. K sits second to the left of O. Both the person sitting at extreme ends faces opposite direction to each other. Both the immediate neighbours of M faces same direction. R sits to the left of L and both of them are facing opposite direction to each other. R does not face north direction.

Q56. Who among the following sits third to the right of R?

- (a) Q
- (b) K
- (c) M
- (d) N
- (e) None of these

Q57. Which among the following pair sit at the end of the row?

- (a) Q, L
- (b) R, K
- (c) O, P
- (d) L, R
- (e) None of these

Q58. How many persons sits to the right of K?

- (a) Two
- (b) More than Three
- (c) Three
- (d) One
- (e) None of these

Q59. Who among the following sits second to the right of Q?

- (a) L
- (b) N
- (c) M
- (d) O
- (e) None of these

Q60. Four of the following are alike in a certain way so form a group, which of the following does not belong to that group?

- (a) K
- (b) N
- (c) R
- (d) O
- (e) P

Directions (61-65): Study the following information carefully and answer the given questions:

Seven persons E, F, G, H, S, T and U buys seven different items viz. Tie, Coat, Ring, Nail paint, Shirt, Diary and Goggles on different days. One person buys one item in a day.

Four person buys items between E and the one who buys Tie. The one who buys coat buys immediately after the one who buys Tie. Two persons buys items between H and the one who buys Tie. T buys immediately after H. F buys his item immediately after the one who buys Diary. Two person buys items between the one who buys coat and the one who buys Shirt. S buys Ring. Goggles was bought immediately after E. Two person buys item between the one who buys Ring and the one who buys Diary. U buys his item before G.

Q61. Who among the following buys Nail paint?

- (a) U
- (b) G
- (c) H
- (d) T
- (e) None of These

Q62. Which item was bought immediately after Shirt?

- (a) Diary
- (b) Goggles
- (c) Tie
- (d) Coat
- (e) None of These

Q63. How many persons buys items between S and F?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of These

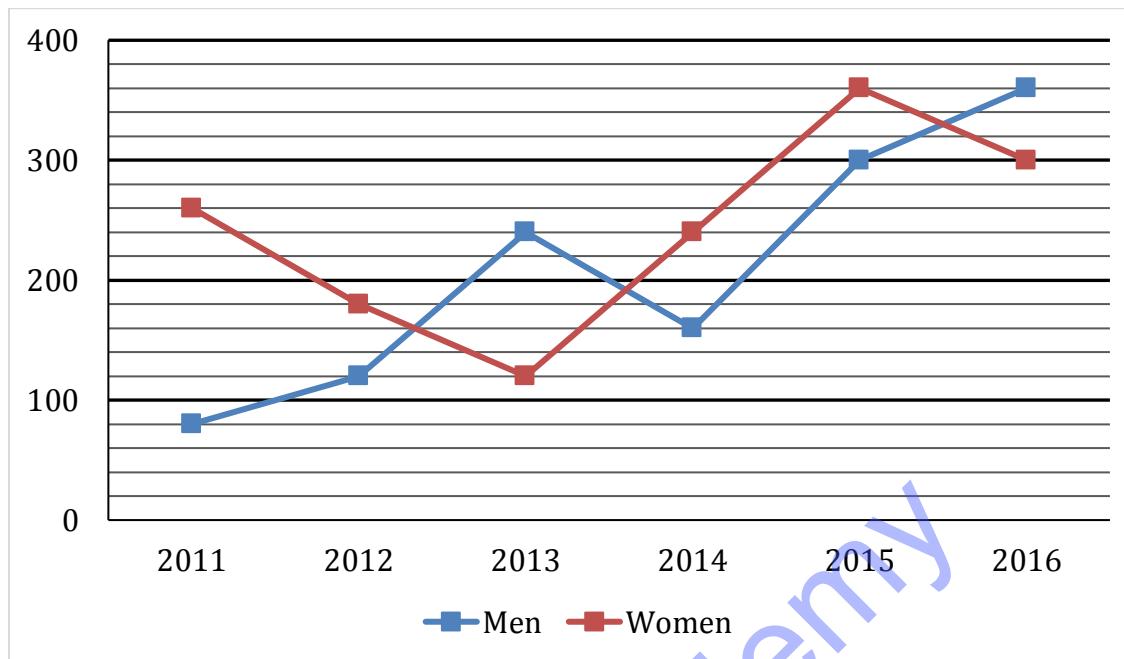
Q64. Which of the following combination is true?

- (a) G- Tie
- (b) H- Dairy
- (c) T- Goggles
- (d) E- Dairy
- (e) None is true

Q65. Who among the following buys item immediately before Ring?

- (a) U
- (b) G
- (c) H
- (d) T
- (e) None of These

Direction (66-70): Line chart given below shows number of labors (men and women) working in six different years. Study the data carefully and answer the following questions.



Q66. Total number of Men working in 2012 and 2013 together is what percent of the total number of labors (Men + Women) working in 2014?

- (a) 60%
- (b) 70%
- (c) 80%
- (d) 90%
- (e) 40%

Q67. Average number of Women working in 2014, 2015 and 2016 together is how much more/less than average number of Men working in 2011, 2014 and 2016 together?

- (a) 100
- (b) 80
- (c) 90
- (d) 70
- (e) None of the given options

Q68. Number of Men working in 2017 is 15% more than that of 2015 while number of Women working in 2017 is 40% less than that of 2014. Find total number of labors (Men + Women) working in 2017?

- (a) 561
- (b) 456
- (c) 489
- (d) 594
- (e) 630

Q69. Find the ratio between total number of Labors working in 2012 and 2013 together to total number of labors working in 2015 and 2016 together?

- (a) 2 : 1
- (b) 1 : 2
- (c) 35 : 66
- (d) 11 : 10
- (e) None of the given options

Q70. Total number of Men working in all six years is how much more/less than total number of Women working in all six years together?

- (a) None of the given options
- (b) 140
- (c) 160
- (d) 180
- (e) 200

Directions (71-76): Find the wrong number in the following number series:

Q71. 4, 5.1, 7.3, 10.6, 15, 20, 27.1

- (a) 5.1
- (b) 4
- (c) 7.3
- (d) 20
- (e) 27.1

Q72. 2, 3, 8, 31, 154, 924, 6460

- (a) 924
- (b) 6460
- (c) 154
- (d) 8
- (e) 31

Q73. 251, 252, 254, 227, 243, 118, 154

- (a) 251
- (b) 252
- (c) 227
- (d) 243
- (e) 154

Q74. 141, 156, 147, 162, 153, 165, 159

- (a) 156
- (b) 153
- (c) 147
- (d) 165
- (e) 159

Q75. 2, 6, 10, 19, 36, 69, 134

- (a) 134
- (b) 69
- (c) 6
- (d) 2
- (e) 10

Q76. 0.5, 2, 1, 4, 32, 512, 16384

- (a) 1
- (b) 2
- (c) 4
- (d) 32
- (e) 512

Q77. Ratio of present ages of A and B is 16:7. After 12 years, A's age is twice of B's age then find present ages of A and B?

- (a) 64yr; 28yr
- (b) 80yr; 35yr
- (c) None of these
- (d) 96yr; 42 yr
- (e) 102yr; 49yr

Q78. A man invested a certain sum in scheme A at 15% p.a. for 2 years and earned Rs 1950 as simple interest. He increased his sum by Rs. 'x' and invested in another scheme B at 10% p.a. C.I. for 2 years and received Rs. 1680 as compound interest. Find the value of 'x' ?

- (a) Rs. 1750
- (b) Rs. 1500
- (c) Rs. 1250
- (d) None of these
- (e) Rs. 1850

Q79. In a class there are 30 girls and 15 boys and total average weight of class is $47\frac{7}{15}$ kg. Total average weight of boys is 58 kg. Find the approximate average weight of girls ?

- (a) 32 kg
- (b) 42 kg
- (c) 52 kg
- (d) 35 kg
- (e) 50 kg

Q80. Ram bought a bike at 20% discount on MRP. After 1 year Ram sell the bike to Ramesh at 10% loss. After 1 year more Ramesh sell the bike at 20% profit to Ranjan. If Ranjan paid Rs. 1,29,600, then find the M.R.P. of the bike ?

- (a) 1,50,000
- (b) 2,25,000
- (c) 1,40,000
- (d) 2,00,000
- (e) 1,80,000

Direction (81-85): There are 450 coupons which can be used in Pedicure and Hair cutting. Ratio between Males to Females who use their coupons in Hair cutting is 13 : 7 Number of males who use their coupons in Pedicure is 72 more than number of females who use their coupon in Hair cutting. Total number of males who use their coupon in Pedicure and Haircutting together is 174 more than total number of females who use their coupon in Pedicure and Haircutting together.

Q81. Males who use their coupon in Pedicure is what percent of the Males who use their coupons in Haircutting?

- (a) 200%
- (b) 100%
- (c) None of the given options
- (d) 0%
- (e) 150%

Q82. Find the ratio between Total number persons who use their coupons in Pedicure to total number of persons who use their coupons in Haircutting?

- (a) 52 : 23
- (b) None of the given options
- (c) 8 : 9
- (d) 8 : 7
- (e) 7 : 8

Q83. Females who use their coupon in Haircutting is how much more than Females who use their coupon in Pedicure?

- (a) 15
- (b) 45
- (c) 30
- (d) None of the given options
- (e) 60

Q84. Out of males who use their coupons in Haircutting, 25% belongs to city A, then find number of males who use their coupons in Haircutting which doesn't belongs to city A?

- (a) None of the give options
- (b) 108
- (c) 126
- (d) 117
- (e) 135

Q85. Ratio between Males who use their coupon in Pedicure to that of in Spa is 4 : 5, while ratio between Females who use their coupon in Haircutting to that of in Spa is 6 : 11. Find total number of people who use their coupons in Spa?

- (a) 349
- (b) 481
- (c) 300
- (d) 440
- (e) None of the given options

Directions (86-91): In each of these questions, two equations (i) and (ii) are given, you have to solve both the equations and give answer accordingly.

Q86. (i) $2x^2 + 9x + 9 = 0$

(ii) $15y^2 + 16y + 4 = 0$

- (a) $x > y$
- (b) $x < y$
- (c) $x \geq y$
- (d) $x \leq y$
- (e) $x = y$ or no relation can be established between x & y .

Q87. (i) $2x^3 = \sqrt{256}$

(ii) $2y^2 - 9y + 10 = 0$

- (a) $x = y$ or no relation can be established between x & y .
- (b) $x < y$
- (c) $x \leq y$
- (d) $x \geq y$
- (e) $x > y$

Q88. (i) $6x^2 - 11x + 4 = 0$

(ii) $3y^2 - 5y + 2 = 0$

- (a) $x \leq y$
- (b) $x < y$
- (c) $x \geq y$
- (d) $x > y$
- (e) $x = y$ or no relation can be established between x & y .

Q89. (i) $3x^2 + 11x + 10 = 0$

(ii) $2y^2 + 11y + 14 = 0$

- (a) $x \geq y$
- (b) $x \leq y$
- (c) $x > y$
- (d) $x < y$
- (e) $x = y$ or no relation can be established between x & y .

Q90. (i) $12x^2 + 11x + 2 = 0$

(ii) $12y^2 + 7y + 1 = 0$

- (a) $x \geq y$
- (b) $x = y$ or no relation can be established between x & y .
- (c) $x < y$
- (d) $x \leq y$
- (e) $x > y$

Q91. (i) $21x^2 + 10x + 1 = 0$

(ii) $24y^2 + 26y + 5 = 0$

- (a) $x \leq y$
- (b) $x = y$ or no relation can be established between x & y .
- (c) $x \geq y$
- (d) $x > y$
- (e) $x < y$

Q92. 'A' can complete a work in 20 days while B is 25% more efficient than 'A'. B worked for 6 days and left, remaining work is completed by 'C' in 15 days. Find in how many days 'C' can complete the whole work alone?

- (a) 27 days
- (b) 21 days
- (c) 18 days
- (d) 24 days
- (e) 30 days

Q93. A man travels from Point P to Q with 90 km/hr and from Q to R with 60 km/hr. Total distance between P to R is 200 km. If his average speed is 75 km/hr then find the distance between P and Q?

- (a) 80 km
- (b) 120 km
- (c) 100 km
- (d) 150 km
- (e) None of the given options

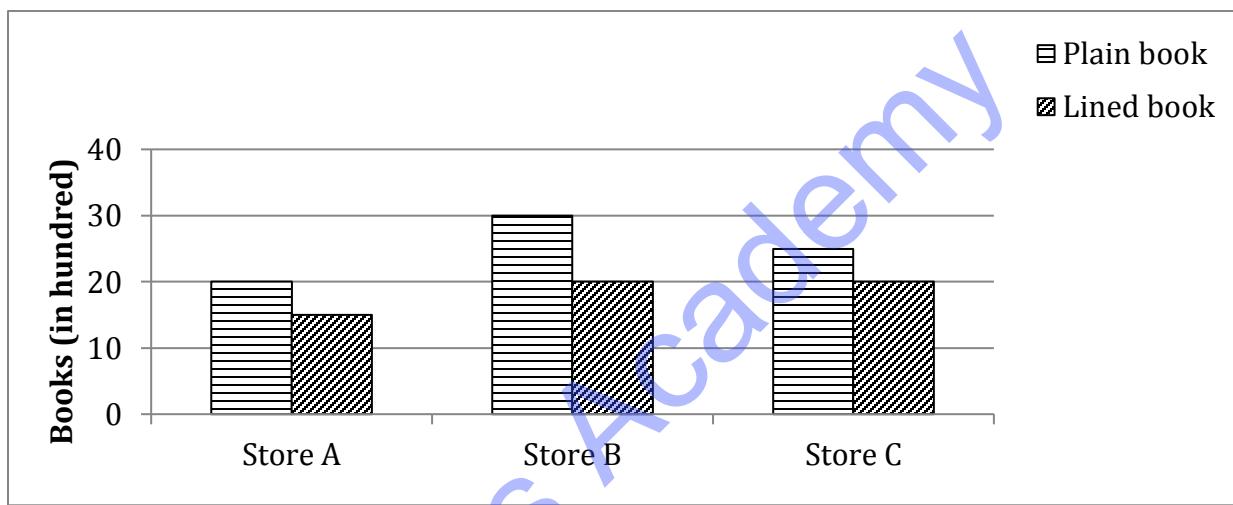
Q94. A mixture contains wine and water in the ratio 5 : 1. On adding 5 litre of water, the ratio of wine to water becomes 5 : 2. The quantity of wine in the mixture is ?

- (a) 20 ℥
- (b) 22 ℥
- (c) 24 ℥
- (d) 26 ℥
- (e) None of these

Q95. The average salary of the entire staff in an office is Rs 3200 per month. The average salary of officers is Rs 6800 and that of non-officers is Rs 2000. If the number of officers is 5, then find the number of non-officers in the office?

- (a) 8
- (b) 12
- (c) 15
- (d) 5
- (e) None of these

Directions (96-100): Given bar graph shows the number of plain books and lined books (in hundreds) available at three different stores and the table shows the percentage of total books (Plain + lined) that was sold by different stores.



Stores	% of sold books
A	20%
B	40%
C	30%

Q96. The number of plain books sold by store A and store B was 30% and 40% respectively then find number of lined books sold by store A and store B together is what percent of total books available at store A ?

- (a) $22\frac{6}{7}\%$
- (b) $23\frac{4}{7}\%$
- (c) $25\frac{5}{7}\%$
- (d) 25%
- (e) None of these

Q97. Average of total books sold by stores B and C together is how much more than total unsold books of store A.

- (a) 1125
- (b) 1075
- (c) 1055
- (d) 1175
- (e) 1225

Q98. Ratio of sold plain and lined books for store C is 5 : 4 and for store B is 3 : 2. Then find the total plain books sold by these two stores together ?

- (a) 1750
- (b) 1825
- (c) 1850
- (d) 1950
- (e) 1975

Q99. Unsold books of store A is approximately what percent more or less than total unsold books of store B and C together.

- (a) 48%
- (b) 54%
- (c) 59%
- (d) 52%
- (e) 57%

Q100. Selling price of each plain books and lined books sold by store B is Rs. 250 and Rs. 175 respectively. Then, find the total amount earned by store B on selling these books if 60% of lined books are sold by the store ?

- (a) Rs. 2.5 lac
- (b) Rs. 3.6 lac
- (c) 3.5 lac
- (d) 3.8 lac
- (e) 4.1 lac

Solutions

S1. Ans.(b)

Sol. There are four tenants of newspaper. One of the tenants is --- publishing at regular intervals. In option (b) the newspaper is being published once in a month and hence is a correct choice.

S2. Ans.(e)

Sol. All the given options are incorrect. Passage has mentioned that “the relation” follows all the condition but it was still debated therefore it can’t be false just because of allegation. Hence (a) was incorrect. Information on paper was distributed earlier too but was just difficult to distribute. Therefore (b) is also incorrect. Option (c) is not mentioned specifically. Option (d) is also inconclusive.

S3. Ans.(b)

Sol. Refer to the first few lines of the 2nd paragraph of the passage, “The first true newspapers arrived after Johannes Gutenberg introduced his movable type printing press to the European world around 1440”. Earlier mass distribution was impossible but due to the press the distribution became plausible.

S4. Ans.(e)

Sol. All the given options are incorrect except (e). Option (e) can be traced from the lines “The first English newspaper was published in 1665 in Oxford, England. Known as the Oxford Gazette, the newspaper moved to London in 1666 and was renamed the London Gazette.”

S5. Ans.(e)

Sol. Option (e) is the correct answer choice for the given word.

Disseminating- spread (something, especially information) widely.

Barb- a sharp projection near the end of an arrow

S6. Ans.(b)

Sol. option (b) is the correct answer choice. Option (b) can be traced from the very first paragraph of the passage where it is stated as “However, disseminating news and information on paper presented significant challenges. When each copy had to be handwritten, mass distribution was impossible.”

S7. Ans. (b)

Sol. The tone of the sentence suggests that something happened in the past. The highlighted phrase has a Future tense which is erroneous. Among the given alternatives, the alternative (i) and (iii) imparts the correct grammatical tense to the sentence. Also note that, in this sentence, both Present Perfect tense and Simple Past tense can impart the correct tense to the sentence.

Hence, the option (b) is the correct answer.

‘Economist Deena Khatkhate, who passed away at the age of 92 on September 15 in Bethesda, Maryland, in the US, was an unusual man.’

S8. Ans.(d)

Sol. 'Who hates' is correct because for universal truth simple present is used.

S9. Ans. (e)

Sol. The given sentence is grammatically correct and contextually meaningful and doesn't require any correction.

Hence, the correct answer is the option (e).

S10. Ans. (c)

Sol. The phrase 'neither one' is considered **singular**. So, the usage of 'are' and 'were' is incorrect. The alternative (i) will make a grammatically incorrect and contextually meaningless sentence.

Only alternative (ii) is the correct answer.

Hence, the correct answer is the option (c).

S11. Ans. (c)

Sol. The appropriate word to be used here is 'Tailored'. 'Alters' which is a verb and it means 'change in character or composition, typically in a comparatively small but significant way'. However, the verb required here should be in its plural form, therefore 'alters' is incorrect.

Tailored- make or adapt for a particular purpose or person.

All other given options don't fit contextually. Hence, option (c) is the most suitable answer choice.

S12. Ans. (a)

Sol. The appropriate word to be used here is 'Resolved'. Here, 'Concludes' 'resolves' are irrelevant as they are in the present tense while the verb required here should be in the past tense. Commence means beginning.

Resolved- firmly determined to do something. Hence, option (a) is the most viable answer choice.

S13. Ans. (e)

Sol. The appropriate word to be used here is 'Confident.'

Confident- feeling or showing confidence in oneself or one's abilities or qualities.

All other given options don't fit contextually.

Tentative means not certain or fixed; provisional.

Hasten means be quick to do something.

S14. Ans. (c)

Sol. The appropriate word to be used here is 'cautious.'

Cautious means (of a person) careful to avoid potential problems or dangers. Option (a) (b) and (d) are opposite of the correct choice 'meticulous.'

Negligent means failing to take proper care over something.

S15. Ans. (c)

Sol. The appropriate word to be used here is 'Mitigating.'

Mitigating- make (something bad) less severe, serious, or painful, all other options except (c) are the opposite of the correct choice to be filled i.e. 'mitigating'

S16. Ans. (a)

Sol. The appropriate word to be used here is 'Reserved'

Reserved- slow to reveal emotion or opinions, all the other options are either opposite to the correct word 'reserved', or don't frame a contextually correct sentence.

S17. Ans. (b)

Sol. To make the sentence meaningful, an interchange between (A) and (C) is required. The phrases 'Some American officials *appear to hope*' and 'sanctions on Iran will lead' are more meaningful. (B) and (D) don't require to be interchanged.

Hence, the correct answer is the A-C, and the option (b) is the correct answer.

'Some American officials appear to hope that resumed sanctions on Iran will lead to a popular uprising.'

S18. Ans. (d)

Sol. 'Tariffs' is a **plural noun** followed by 'has' which is incorrect. 'China' is also a noun but a singular noun and can be followed by 'has'. So, an interchange between (A) and (C) is required. Moreover, a noun can only be interchanged with a noun, not a finite verb. Similarly, interchanging (B) and (D) would impart better meaning to the sentence.

Hence, two interchanges are required: A-C and B-D.

'China has imposed higher tariffs on 603 items imported from the US.'

S19. Ans. (a)

Sol. Turkey, which is a nation, could be a NATO ally, not the 'world', 'journalists of number' is a meaningless phrase. The correct phrase should be '**number of journalists**'. So, an interchange between (A) and (B), and (C) and (D) is required.

Hence, the correct answer is A-B and C-D, and the option (a) is the correct answer.

'NATO ally Turkey leads the world in the number of journalists jailed.'

S20. Ans. (c)

Sol. Pathankot is a city inside Kashmir. Kashmir is not inside Pathankot. The given sentence suggests that as if Pathankot is inside Kashmir which is erroneous. An interchange between (B) and (D) is required. (A) and (C) are placed in correct positions.

Hence, the option (c) is the correct answer.

'In 2016, rising violence in Kashmir by Islamic militants culminated in attacks on Indian forces at Uri and Pathankot.'

S21. Ans. (c)

Sol. Use 'hidden' in place of 'hiding' as in passive voice 'To Be + third form of verb' is used.

S22. Ans. (e)

Sol. The sentence is grammatically correct.

S23. Ans. (d)

Sol. Use 'for reducing' in place of 'for reduce' because the verb coming after preposition 'for' should always be in fourth form of the verb.

S24. Ans. (d)

Sol. 'had' will be used in place of 'have' because words like 'declined' and 'did' infer that the sentence is in past.

S25. Ans. (b)

Sol. Outrun [verb]: go beyond or exceed.

Among the given options, only 'outrun' appropriately fills the blank and is the correct answer.

The usage of 'begin', 'choose' and 'cut' would make the sentence meaningless.

Hence, the option (b) is the correct answer.

S26. Ans. (b)

Sol. The economist studied a Chinese travel agency and declares working from home a "future-looking technology" with "enormous potential". It seems that the blank would be filled by an adverb.

The tone of the sentence suggests that the economist was enthusiastic with the future-prospect of the Chinese travel agency.

So, the correct adverb which could fill the blank is 'enthusiastically'.

Kindly note that the usage of 'appropriately' would be wrong because whether the assertion of the economist would be true isn't still proved.

Hence, the correct answer is the option (b).

S27. Ans. (c)

Sol. The word 'broad' is an adjective. The blank seems to be filled by a noun.

What can be drawn from findings? The word 'Conclusions', among the given options, is the most appropriate choice. Hence, the option (c) is the correct answer.

S28. Ans. (a)

Sol. optimally [adverb] means '*in the best or most favourable way*';

A leader is someone who must manage and work with the employees under her/him. The chances of getting desired result increases when the working or professional relationship between leader and the employees is positive and favourable.

Among the given options, the adverb 'optimally', upon filling the blank, makes the most sense while others don't.

Hence, the option (a) is the correct answer.

S29. Ans. (e)

Sol. The blank seems to be filled by a finite verb. What action did (or could) Bloom (Nicholas Bloom) take on China's biggest travel agency, Ctrip? The economist studied the travel agency. Among the given options, the words 'focus' and 'concentrates' are the most relevant, but the option (e) 'focused' also satisfies the grammatical requirement of the sentence. The tense of the sentence should be Simple Past, not Simple Present. Hence, the correct answer is the option (e).

S30. Ans. (d)

Sol. ‘Instituted’ [institute, verb] means ‘*introduce or establish (a scheme, undertaking, or policy)*’;

The preceding sentence informs us that Ctrip wanted to expand while controlling office space costs. What should be the meaning of ‘remote work trial’? The context of the passage suggests that it means that instead of employee coming to office and completing their tasks, they would complete their task remotely, without coming to office, for example, ‘work from home’ etc. The company should have ‘established’ such a policy. But the option (a) ‘establishes’ doesn’t satisfy the grammatical requirements imposed on the blank. The tense of the tense should be Simple Past, not Simple Present. The correct word which imparts the correct meaning and satisfies the grammatical requirements imposed on the blank is ‘**instituted**’.

Hence, the correct answer is the option (d).

Plutus Academy

Solutions

Solutions (31-35):

T
R
X
Q
S
W
U
P
V

S31. Ans.(e)

S32. Ans.(d)

S33. Ans.(c)

S34. Ans.(d)

S35. Ans.(e)

Solutions (36-40):

Words	Code
Venue	rs
Details	wi
Get	fe
For	mo
Guest	ra
book/ required	gt/rd
More	gk

S36. Ans.(c)

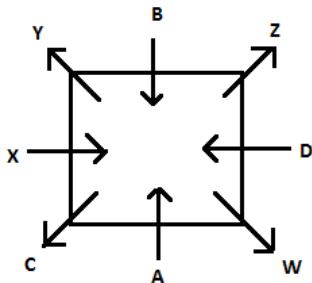
S37. Ans.(c)

S38. Ans.(b)

S39. Ans.(d)

S40. Ans.(e)

Solutions (41-45):



S41. Ans.(d)

S42. Ans.(a)

S43. Ans.(c)

S44. Ans.(d)

S45. Ans.(c)

S46. Ans. (c)

Sol. I. $K \leq X$ (false)

II. W>M(false)

S47. Ans. (b)

Sol. I. $Z \leq Y$ (True)

II. $S > 0$ (false)

S48. Ans. (c)

Sol. L. K>M(false)

II. P>M(false)

S49. Ans. (e)

Sol. I. M \geq U (True)

II. G>Z(True)

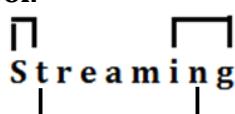
S50. Ans. (d)

Sol. L. $L \geq R$ (True)

II. H \leq R(false)

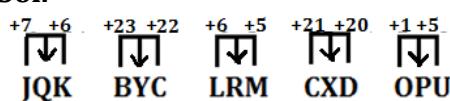
S51. Ans. (c)

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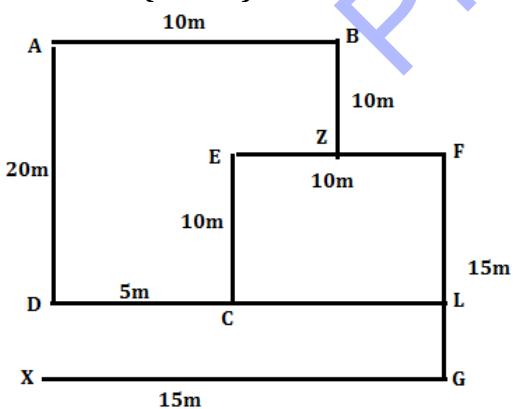


S52. Ans. (e)

Sol.



Solutions (53-55):

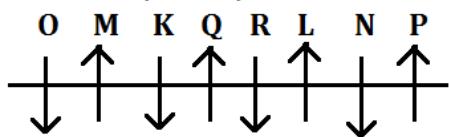


S53. Ans. (a)

S54. Ans. (c)

S55. Ans. (a)

Solutions (56-60):



S56. Ans.(c)

S57. Ans.(c)

S58. Ans.(a)

S59. Ans.(a)

S60. Ans.(e)

Solutions (61-65):

Person	Items
U	Tie
G	Coat
S	Ring
H	Nail paint
T	Shirt
E	Diary
F	Goggles

S61. Ans.(c)

S62. Ans.(a)

S63. Ans.(c)

S64. Ans.(d)

S65. Ans.(b)

Solutions

S66. Ans.(d)

Sol. Required % = $\frac{120+240}{160+240} \times 100 = \frac{360}{400} \times 100 = 90\%$

S67. Ans.(a)

Sol. Average number of Women working in 2014, 2015 and 2016 together

$$= \frac{1}{3}[240 + 360 + 300] = \frac{900}{3} = 300$$

$$\text{Average number of Men working in 2011, 2014 and 2016 together} = \frac{1}{3}[80 + 160 + 360] = \frac{600}{3} = 200$$

$$\text{Required difference} = 300 - 200 = 100$$

S68. Ans.(c)

Sol. Number of Men working in 2017 = $\frac{115}{100} \times 300 = 345$

Number of Women working in 2017 = $\frac{60}{100} \times 240 = 144$

$$\text{Total number of labors working in 2017} = 345 + 144 = 489$$

S69. Ans.(b)

Sol. Required Ratio = $\frac{(120+180)+(240+120)}{(300+360)+(360+300)} = \frac{300+360}{660+660} = \frac{660}{1320} = \frac{1}{2}$

S70. Ans.(e)

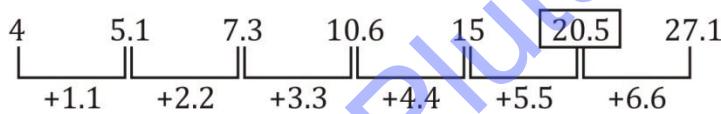
Sol. Total number of Men working in all six years = $80 + 120 + 240 + 160 + 300 + 360 = 1260$

Total number of Women working in all six years = $260 + 180 + 120 + 240 + 360 + 300 = 1460$

$$\text{Required difference} = 1460 - 1260 = 200$$

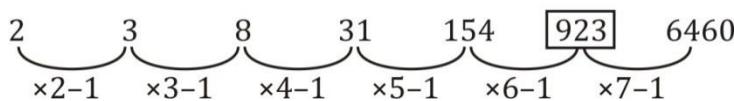
S71. Ans.(d)

Sol.



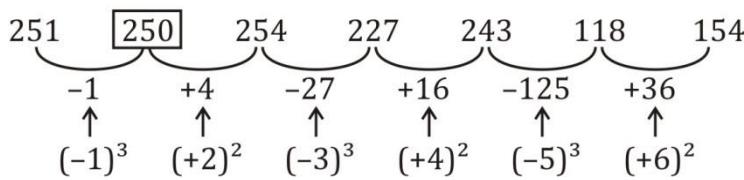
S72. Ans.(a)

Sol.



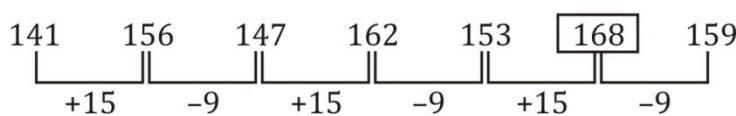
S73. Ans.(b)

Sol.



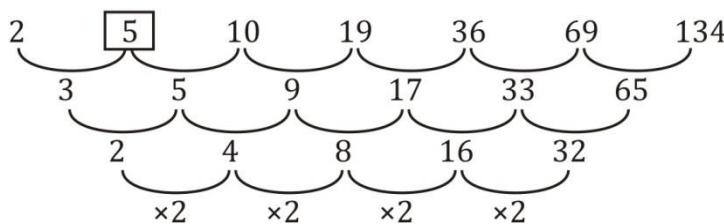
S74. Ans.(d)

Sol.



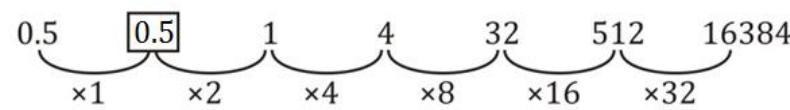
S75. Ans.(c)

Sol.



S76. Ans.(b)

Sol.



S77. Ans.(d)

Sol. Let present age of A and B be $16x$ yr and $7x$ yr respectively

ATQ

$$\frac{16x + 12}{7x + 12} = \frac{2}{1}$$

$$\Rightarrow 2x = 12$$

$$\Rightarrow x = 6$$

Present age of A=96 yr

Present age of B= 42 yr

S78. Ans.(b)

Sol. Sum = $\frac{1950 \times 100}{2 \times 15}$ = Rs 6500

CI in 2 years at 10% per annum = $10 + 10 + \frac{10 \times 10}{100} = 21\%$

ATQ

$$(6500+x) \times \frac{21}{100} = 1680$$

$$\Rightarrow (6500 + x) = 8000$$

$$x = \text{Rs} 1500$$

S79. Ans.(b)

Sol. Total weight of students = $47 \frac{7}{15} (15 + 30) = 2136$ kg

Total weight of boys = $15 \times 58 = 870$ kg

Average weight of girls = $\left(\frac{2136 - 870}{30} \right)$ kg = 42.2 kg \approx 42 kg

S80. Ans.(a)

Sol. Ram's cost price = M. R. P. $\times \frac{80}{100}$

Ramesh C. P. = M. R. P. $\times \frac{80}{100} \times \frac{90}{100}$

Ranjan C. P. = M. R. P. $\times \frac{80}{100} \times \frac{90}{100} \times \frac{120}{100} = 1,29,600$

\Rightarrow M.R.P. = Rs. 1,50,000

Solution (81-85):

Let, Males and females who use their coupons in Haircutting be $13x$ and $7x$ respectively.

\Rightarrow Males who use their coupons in Pedicure = $7x + 72$

Then Females who use their coupons in Pedicure = $450 - 13x - 7x - 7x - 72 = 378 - 27x$

Pedicure		Haircutting	
Males	Females	Males	Females
$7x+72$	$378-27x$	$13x$	$7x$

ATQ,

$$7x + 72 + 13x - (7x + 378 - 27x) = 174$$

$$40x - 306 = 174$$

$$40x = 480$$

$$x = 12$$

Pedicure		Haircutting	
Males	Females	Males	Females
156	54	156	84

S81. Ans.(b)

Sol. Required % = $\frac{156}{156} \times 100 = 100\%$

S82. Ans.(e)

Sol. Required Ratio = $\frac{156+54}{156+84} = \frac{210}{240} = \frac{7}{8}$

S83. Ans.(c)

Sol. Required difference = $84 - 54 = 30$

S84. Ans.(d)

Sol. Number of males who use their coupons in Haircutting which doesn't belongs to city A

$$= 156 \times \frac{75}{100} = 117$$

S85. Ans.(a)

Sol. Males who use their coupons in Spa = $156 \times \frac{5}{4} = 195$

Females who use their coupons in Spa = $84 \times \frac{11}{6} = 154$

Total number of people who use their coupon in Spa = $195 + 154 = 349$

S86. Ans.(b)

Sol.

(i) $2x^2 + 9x + 9 = 0$

$$2x^2 + (6 + 3)x + 9 = 0$$

$$2x(x + 3) + 3(x + 3) = 0$$

$$x = \frac{-3}{2}, -3$$

(ii) $15y^2 + 16y + 4 = 0$

$$15y^2 + 10y + 6y + 4 = 0$$

$$5y(3y + 2) + 2(3y + 2) = 0$$

$$y = \frac{-2}{5}, \frac{-2}{3}$$

$$x < y$$

S87. Ans.(c)

Sol.

(i) $2x^3 = 16$

$$x^3 = 8$$

$$x = 2$$

(ii) $2y^2 - 9y + 10 = 0$

$$2y^2 - (5 + 4)y + 10 = 0$$

$$2y^2 - 5y - 4y + 10 = 0$$

$$y(2y - 5) - 2(2y - 5) = 0$$

$$y = 2, \frac{5}{2}$$

$$x \leq y$$

S88. Ans.(e)

Sol.

(i) $6x^2 - 11x + 4 = 0$

$$6x^2 - (8 + 3)x + 4 = 0$$

$$6x^2 - 8x - 3x + 4 = 0$$

$$2x(3x - 4) - 1(3x - 4) = 0$$

$$x = \frac{1}{2}, \frac{4}{3}$$

(ii) $3y^2 - 5y + 2 = 0$

$$3y^2 - (3 + 2)y + 2 = 0$$

$$3y^2 - 3y - 2y + 2 = 0$$

$$3y(y - 1) - 2(y - 1) = 0$$

$$y = \frac{2}{3}, 1$$

No relation between x and y

S89. Ans.(a)

Sol.

(i) $3x^2 + 11x + 10 = 0$

$3x^2 + 6x + 5x + 10 = 0$

$3x(x + 2) + 5(x + 2) = 0$

$x = -2, -\frac{5}{3}$

(ii) $2y^2 + 11y + 14 = 0$

$2y^2 + 7y + 4y + 14 = 0$

$y(2y + 7) + 2(2y + 7) = 0$

$y = -2, -\frac{7}{2}$

$x \geq y$

S90. Ans.(b)

Sol.

(i) $12x^2 + 8x + 3x + 2 = 0$

$4x(3x + 2) + 1(3x + 2) = 0$

$x = -\frac{2}{3}, -\frac{1}{4}$

(ii) $12y^2 + 7y + 1 = 0$

$12y^2 + 4y + 3y + 1 = 0$

$4y(3y + 1) + 1(3y + 1) = 0$

$y = -\frac{1}{3}, -\frac{1}{4}$

No relation between x and y

S91. Ans.(b)

Sol.

(i) $21x^2 + 10x + 1 = 0$

$21x^2 + 7x + 3x + 1 = 0$

$7x(3x + 1) + 1(3x + 1) = 0$

$x = -\frac{1}{3}, -\frac{1}{7}$

(ii) $24y^2 + 26y + 5 = 0$

$24y^2 + (20 + 6)y + 5 = 0$

$24y^2 + 20y + 6y + 5 = 0$

$4y(6y + 5) + 1(6y + 5) = 0$

$y = -\frac{5}{6}, -\frac{1}{4}$

No relation between x and y

S92. Ans.(d)

Sol. B can complete work alone in $= 20 \times \frac{4}{5} = 16$ days

Let C alone can complete work in 'x' days

ATQ,

$$\begin{aligned} \frac{6}{16} + \frac{15}{x} &= 1 \\ \Rightarrow \frac{15}{x} &= \frac{10}{16} \\ \Rightarrow x &= \frac{15 \times 16}{10} = 24 \text{ days} \end{aligned}$$

S93. Ans.(b)

Sol. Let distance between P to Q and Q to R be 'x' and 'y' respectively.

ATO₁

$$75 = \frac{200}{\frac{x}{90} + \frac{y}{60}}$$

$$60x + 90y = 200 \times 90 \times 60 \times \frac{1}{75}$$

$$2x + 3y = 480$$

$$\text{And } x + y = 200$$

$$\Rightarrow x = 120\text{km} \text{ and } y = 80\text{km}$$

S94. Ans.(e)

Sol. Let wine and water are = $5x : x$

$$\text{Now, } \frac{5x}{x+5} = \frac{5}{2} \Rightarrow 10x = 5x + 25$$

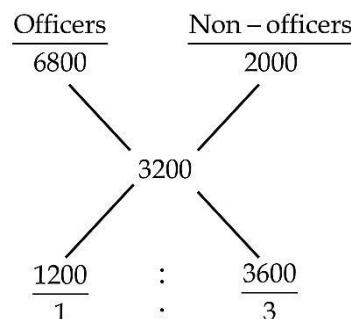
$$x = 5$$

$$\Rightarrow \quad \begin{array}{c} 25 : 5 \\[-1ex] \text{Before mixture} \end{array} \quad \mid \quad \begin{array}{c} 25 : 10 \\[-1ex] \text{After mixture} \end{array}$$

Quantity of wine = 25ℓ

S95. Ans.(c)

Sol.



$$\text{No. of non-officers} = \frac{3}{1} \times 5 = 15$$

S96. Ans.(c)

Sol. Total books sold by store A = $3500 \times \frac{20}{100} = 700$

Total plain books sold by store A

$$= 2000 \times \frac{30}{100} = 600$$

Total lined books sold by store A = $700 - 600 = 100$

Total books sold by store B = $5000 \times \frac{40}{100} = 2000$

Plain books sold by store B = $3000 \times \frac{40}{100} = 1200$

Total lined books sold by store B = $2000 - 1200 = 800$

Required % = $\frac{900}{3500} \times 100 = \frac{180}{7}\% = 25\frac{5}{7}\%$

S97. Ans.(a)

Sol. Average of total books sold by stores B and C

$$= \frac{1}{2} \left(50 \times \frac{40}{100} \times 100 + 45 \times \frac{30}{100} \times 100 \right)$$

$$= 1675$$

Unsold books of store A = $3500 \times \frac{80}{100} = 2800$

Required difference = $2800 - 1675 = 1125$

S98. Ans.(d)

Sol. Total books sold by store C = $45 \times 100 \times \frac{30}{100} = 1350$

Plain books sold by C = $1350 \times \frac{5}{9} = 750$

Plain books sold by store B = $\frac{3}{5} \times 5000 \times \frac{40}{100} = 1200$

Required number of books = $1200 + 750 = 1950$

S99. Ans.(b)

Sol. Unsold books of store A = $3500 \times \frac{80}{100} = 2800$

Unsold books of store B and C together

$$= 5000 \times \frac{60}{100} + 4500 \times \frac{70}{100}$$

$$= 6150$$

Required % = $\frac{6150 - 2800}{6150} \times 100 = 54\%$

S100. Ans.(e)

Sol. Number of total books sold by store B

$$= 5000 \times \frac{40}{100} = 2000$$

Number of lined books sold

$$= 2000 \times \frac{60}{100} = 1200$$

Total amount earned = Rs. $(800 \times 250 + 1200 \times 175) = \text{Rs. } 4.1 \text{ lac}$