

MARUTHI SCHOOL OF BANKING

No Formula Only Shortcuts

IBPS CLERK (PT) - I

Test-I: English Language

Directions (Q. 1-5): 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 5. (Ignore errors of punctuation, if any.)

- 1) His father did / 2) and is still doing / 3) excellent work / 4) for his company. / 5) No error
- 1) Rakesh was unhappy to hear / 2) the news of his / 3) daughter failing / 4) in final examination. / 5) No error
- 1) Being a short vacation / 2) they had to return / 3) without visiting / 4) many of the temples. / 5) No error
- 1) In order to simplify processes, / 2) the Ministry has introduced single-page registration / 3) and from its launch last month / 4) over ten thousand people have applied for Udyog Aadhaar. / 5) No error
- 1) According to him, the government has / 2) to efficiently use MGNREGA funds / 3) and also come up with / 4) other innovative rural sector policies to avert a disaster. / 5) No error

Directions (Q. 6-10): Pick out the most effective word from the given options to fill in the blanks to make the sentence meaningfully complete.

6. She maintained that her mother's illness was the reason for the _____ of her health.
1) improvement 2) fall 3) deterioration
4) recuperation 5) growth
7. Bringing _____ black money was an avowed electoral aim of Narendra Modi.
1) forth 2) back 3) about
4) in 5) of
8. Fifteen districts may be reeling _____ drought but the state government is readying to splurge around 20 crores on celebrating Chief Minister's ten years in office.
1) in 2) for 3) on
4) about 5) under
9. The Indian High Commission in Canada has not so far made available information on expenses _____ for the PM's security.
1) incurred 2) got 3) met
4) done 5) causal
10. _____ to the popular proverb, public memory in Bihar is not really short.
1) Comparable 2) Opposite 3) Familiar
4) Contrary 5) Similar

Directions (Q. 11-20): Read the passage carefully and answer the questions given below it. Certain words/phrases have been given in bold to help you locate them while answering some of the questions.

When things in your life seem almost too much to handle, when 24 hours in a day are not enough, remember the mayonnaise Jar... and the Coffee...

A professor stood before his philosophy class and had some items in front of him. When the class began, wordlessly, he picked up a very large and empty mayonnaise jar and proceeded to fill it with golf balls.

He then asked the students if the Jar was full. They agreed that it was. So the professor then picked up a box of pebbles and poured them into the Jar. He shook the Jar lightly. The pebbles rolled into the open areas between the golf balls. He then asked the students again if the jar was full. They agreed it was.

The professor next picked up a box of sand and poured it into the Jar. Of course, the sand filled up everything else. He asked once more if the Jar was full. The students responded **unanimous** "yes."

The professor then produced two cups of Coffee from under the table and poured the entire contents into the Jar, effectively filling the empty space between the sand. The students laughed.

"Now," said the professor, as the laughter **subsided**, "I want you recognise that this Jar represents your life. The golf balls are the important things, your God, family, your children, your health, your friends, and your favorite passions, things that if everything else was lost and only they remained, your life would still be full." The pebbles are the other things that matter like your job, your house, and your car. The sand is everything else – the small stuff.

"If you put the sand into the Jar first," he continued, "there is no **room** for the pebbles or the golf balls." The same goes for life. If you spend all your time and energy on the small stuff, you will never have room for the things that are important. Pay attention to the things that are **critical** to your happiness. Play with your children. Take care of the golf balls first, the things that really matter. Set your priorities. The rest is just sand.

One of the students raised her hand and inquired what the Coffee represented. The professor smiled. "I'm glad you asked. It just goes to show that no matter how full your life may seem, there's always room for a couple of cups of Coffee with your friends."

11. What did the professor want to teach the students with the help of the mayonnaise jar?

- 1) That one should place bigger things in the jar first, followed by smaller things.
 - 2) That the jar filled with bigger things still has enough space for smaller things.
 - 3) That if important things are there with you, other less important things can later be taken care of.
 - 4) That golf balls should be placed first in an important jar like the mayonnaise jar.
 - 5) That everybody must understand the importance of utensils like the mayonnaise jar and the Coffee.
12. Why did the professor ask to take care of the golf balls first?
- 1) Because the golf balls represent one's life
 - 2) Because the golf balls represent the family members, relatives, friends, God and health
 - 3) Because the golf balls can help keep one healthy
 - 4) Because the golf balls are very delicate
 - 5) Other than those given as options
13. What does the Coffee represent? Answer in the context of the passage.
- 1) The Coffee represents the availability of space for friends even in the life of the busiest person.
 - 2) The Coffee represents such friends as make others' lives happier.
 - 3) The Coffee represents the most aromatic drink capable of providing freshness to an exhausted person.
 - 4) The coffee represents the dark side of a human being.
 - 5) None of the above
14. Find the incorrect statement on the basis of the given passage.
- 1) The professor wanted to prove that one's life cannot be completely full, however busy he may be.
 - 2) The golf ball is more important than the pebbles or sand.
 - 3) The life of a human being cannot go well without friends.
 - 4) The Jar is more important than the Coffee.
 - 5) None of the above
15. Which of the following is the most important things for a human being? Answer in the context of the passage.
- 1) Mayonnaise Jar
 - 2) Coffee
 - 3) Golf balls
 - 4) Pebbles
 - 5) Sand

Directions (Q. 16-18): Choose the word/group of words which is MOST SIMILAR in meaning to the word/group of words printed in bold as used in the passage.

16. Shook
- 1) lifted
 - 2) put
 - 3) jerked
 - 4) moved
 - 5) handled
17. Room
- 1) space
 - 2) home
 - 3) building
 - 4) palace
 - 5) hill

18. **Critical**
- 1) complementary
 - 2) harmful
 - 3) negative
 - 4) trivial
 - 5) important

Directions (Q. 19-20): Choose the word/group of words which is MOST OPPOSITE in meaning of the word/group of words printed in bold as used in the passage.

19. **Unanimous**
- 1) uncontested
 - 2) common
 - 3) consensual
 - 4) split
 - 5) undisputed
20. **Subsided**
- 1) decreased
 - 2) petered out
 - 3) rose
 - 4) sank
 - 5) eased

Directions (Q. 21-25): Rearrange the following seven sentences (A), (B), (C), (D), (E), (F) and (G) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

- (A) He laid a trap for them.
 - (B) A crane was also one of his victims.
 - (C) The farmer retorted, "you are found in the company of my enemies."
 - (D) A farmer was worried about the seeds in his farm as they were destroyed by the birds.
 - (E) The next day he managed to catch a flock of birds.
 - (F) The crane pleaded with the farmer to let it free.
 - (G) So, I will not spare you".
21. Which of the following should be the **FIRST** sentence after rearrangement?
- 1) A
 - 2) B
 - 3) C
 - 4) D
 - 5) E
22. Which of the following should be the **SECOND** sentence after rearrangement?
- 1) C
 - 2) B
 - 3) A
 - 4) G
 - 5) F
23. Which of the following should be the **THIRD** sentence after rearrangement?
- 1) D
 - 2) E
 - 3) B
 - 4) C
 - 5) A
24. Which of the following should be the **FIFTH** sentence after rearrangement?
- 1) F
 - 2) E
 - 3) D
 - 4) G
 - 5) B
25. Which of the following should be the **LAST (SEVENTH)** sentence after rearrangement?
- 1) B
 - 2) A
 - 3) E
 - 4) F
 - 5) G

Directions (Q. 26-30): 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 meaningful.

Once there was a big pool near a village. The villagers used the water of the pool for drinking and for other purposes also. The pool (26) with fish.

Once a fisherman went fishing to the pool. He (27) his net into the pool and sat down. But he was very (28). So, he tied a long string to a small stone. Then putting it into the pool, he began to stir the water to drive more fish into his net.

A villager saw him do so and asked him not to make

the water muddy. But the fisherman didn't listen to him and went on (29) the water and making it dirty. So, the villagers brought some companions armed with weapons. Seeing them, the fisherman got (30). He drew out his stone and apologised.

26. 1) scarce 2) dearth 3) abounded
 4) filled 5) abundant
27. 1) cast 2) covered 3) put
 4) took 5) sent
28. 1) confident 2) solvent 3) sad
 4) impatient 5) needful
29. 1) disturbing 2) beating 3) throwing
 4) pulling 5) keeping
30. 1) pleased 2) amused 3) happy
 4) lively 5) scared

Test-II: Reasoning Ability

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

Manan, Nitesh, Om, Parush, Qureshi, Risabh, Shashi and Tanmay are sitting around a circular table at equal distances between each other, but not necessarily in the same order. Some of the people are facing the centre while some others are facing outward.

- Shashi sits second to the right of Parush. Parush faces the centre.
 - Tanmay sits second to the left of Shashi.
 - Tanmay is an immediate neighbour of both Om and Qureshi.
 - Risabh sits second to the left of Qureshi.
 - Manan sits second to the left of Om.
 - Tanmay faces the same direction as Qureshi.
 - Nitesh sits third to the right of Manan.
 - Manan sits third to the right of Nitesh.
 - Shashi faces the same direction as Tanmay.
 - Om sits second to the right of Qureshi.
31. Who sits exactly between Shashi and Tanmay when counted from the left of Shashi?
 1) Manan 2) Om 3) Qureshi
 4) Nitesh 5) Parush
32. How many people in the given arrangement face the centre?
 1) One 2) Three 3) Five
 4) Four 5) Can't be determined
33. Who sits second to the right of Nitesh?
 1) Risabh 2) Shashi 3) Parush
 4) Tanmay 5) Other than the given options
34. Four of the following five are alike in a certain way based on the given seating arrangement and so form a group. Which is the one that does not belong to that group?
 1) Tanmay 2) Om 3) Shashi
 4) Manan 5) Qureshi

35. What is Manan's position with respect to Tanmay?
 1) Second to the left 2) Third to the right
 3) Third to the left 4) Fifth to the right
 5) Fourth to the right

Directions (Q. 36-40): In each question below are given two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

- 1) if only conclusion I follows.
 2) if only conclusion II follows.
 3) if either conclusion I or II follows.
 4) if neither conclusion I nor II follows.
 5) if both conclusion I and II follow.

(36-37):

Statements: All prices are costs.
 No cost is an amount.
 All amounts are expenses.

36. **Conclusions:** I. No expense is a price.
 II. All costs being expenses is a possibility.
37. **Conclusions:** I. No price is an amount.
 II. All prices being expenses is a possibility.

(38-39):

Statements: No invitation is a rejection.
 Some rejections are celebrations.
 All celebrations are attractions.

38. **Conclusions:** I. No attraction is a rejection.
 II. No attraction being invitation is a possibility.
39. **Conclusions:** I. All invitations being celebrations is a possibility.
 II. No invitation is a celebration.
40. **Statements:** Some grades are scales.
 All categories are scales.
Conclusions: I. All grades being categories is a possibility.
 II. No category is a grade.

Directions (Q. 41-43): Read the information carefully and answer the following questions.

'A + B' means 'A is sister of B'
 'A × B' means 'A is mother of B'
 'A - B' means 'A is brother of B'
 'A ÷ B' means 'A is father of B'

41. Which of the following represents 'S, is a cousin of T'?
- 1) $S \div U + V \times T$ 2) $U \div S + V + T$
 3) $U + S + V \times T$ 4) $T + U \times V - S$
 5) Other than those given a options

42. Which of the following means 'R, is a paternal aunt of Q'?
- 1) $R + S + Q$ 2) $R \div Q + T$
 3) $R + T \div Q$ 4) $R + T \times Q$
 5) Other than those given as options

43. What will come in place of question mark (?) if S is paternal grandmother of T?

$S \times H + U ? I + T$

- 1) + 2) \times 3) -
 4) \div 5) Either 2) or 4)

Directions (Q. 44-48): Study the following arrangement carefully and answer the questions given below:

R 4 P I J M Q 3 % T @ © U K 5 V 1 W \$ Y 2 B E 6 # 9 D
 H 8 G * Z N

44. Which of the following is sixth to the left of the fifteenth from the left end of the given arrangement?

- 1) 2 2) # 3) %
 4) \$ 5) Other than the given as option

45. How many such numbers are there in the given arrangement each of which is immediately preceded by a consonant but not immediately followed by a letter?

- 1) One 2) None 3) Five 4) Two 5) Four

46. How many such symbols are there in the arrangement, each of which is immediately followed by a letter but not immediately preceded by a number?

- 1) One 2) Three 3) None
 4) Two 5) More than three

47. What should come in place of question mark (?) in the following series based on the above arrangement?

IM3 @U5 WYB ?

- 1) 69H 2) #D8 3) 6#9
 4) #9D 5) Other than the given options

48. Four of the following five are alike in a certain way based on their positions in the given arrangement and so form a group. Which is the one that does not belong to that group?

- 1) BE6 2) @©U 3) 9DH 4) 5V1 5) #ZG

49. If S means '-', Q means ' \times ', R means ' \div ' and P means '+' then

$2 P 90 R 4 Q 4 S 8 = ?$

- 1) 90 2) 82 3) 84 4) 80 5) 86

50. If 'EB' is related to 'JG', in the same way 'OL' is related to

- 1) TQ 2) QT 3) QS 4) TS 5) UQ

Directions (Q. 51-55): Study the following information carefully and answer the questions given below:

Seven persons Tarun, Varun, Yunis, Xavier, Zishan, Wasim and Umang are sitting in a straight line facing north (but not necessarily in the same order.) Zishan sits third from the right end. Varun is third to the right of Umang, who is not an immediate neighbour of Yunis or Tarun, who sits third to the left of Xavier, who is an immediate neighbour

of Umang. Zishan sits between Xavier and Varun, who sits on the immediate left of Yunis. Neither Varun nor Wasim sits at any end of the line. There is only one person between Yunis and Zishan but that person is neither Umang nor Wasim.

51. Who among the following is second to the left of Xavier?

- 1) Varun 2) Yunis 3) Wasim
 4) Other than those given as options
 5) Tarun

52. Who among the following sit at the ends of the rows?

- 1) Umang and Xavier 2) Yunis and Varun
 3) Tarun and Xavier 4) Can't be determined
 5) Other than those given as options

53. Who among the following sits third to the left of Varun?

- 1) Yunis 2) Umang
 3) Tarun 4) Can't be determined
 5) Other than those given as options

54. What is the position of Yunis with respect to Umang?

- 1) Second to the left 2) Third to the left
 3) Fourth to the right 4) Fifth to the right
 5) Other than those given as options

55. Which of the following statements is true?

- 1) Yunis sits on the immediate left of Tarun.
 2) The person who sits exactly between Yunis and Zishan is Umang.
 3) The person who sits exactly between Umang and Tarun is Wasim.
 4) Only 2) and 3) are true
 5) None is true

Directions (Q. 56-59): In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer

- 1) if only conclusion I is true
 2) if only conclusion II is true
 3) if either conclusion I or II is true
 4) if neither conclusion I nor II is true
 5) if both conclusions I and II are true

56. **Statements:** $L \geq M > N \leq O < Q, R = L$

Conclusions: I. $R > N$ II. $Q > M$

57. **Statements:** $S \leq T = U \leq F, M = K > F$

Conclusions: I. $M < U$ II. $K > S$

58. **Statements:** $X > I = B < U, F > C \geq X$

Conclusions: I. $U > X$ II. $I \geq F$

59. **Statements:** $N \geq R = S, Q > T \leq O < S$

Conclusions: I. $R > T$ II. $N \leq O$

60. If red means orange, orange means blue, blue means green, green means black, black means white and white means pink, then what is the colour of milk?

- 1) pink 2) black
 3) orange 4) blue
 5) Other than those given as options

Directions (Q. 61-63): Study the following information carefully and answer the questions given below:

In a certain code language, 'how are you' is coded as 'la de mo', 'who are you' is coded as 'de ma mo', and 'how you go there' is coded as 'mo sp wa la'.

61. How is 'how' coded in the given code language?
 1) mo 2) de 3) ma
 4) la 5) Either 3) or 4)
62. How will 'who you are' be coded in the given code language?
 1) la mo sp 2) ma mo de 3) mo de la
 4) la sp wa 5) Either 2) or 3)
63. What does 'sp' stand for?
 1) go 2) are 3) you
 4) there 5) Either 1) or 4)
64. In a certain code language 'ZIP' is written as '742' and 'CODE' is written as '1356' and 'ADE' is written as '856'. How will ZODIAC be written in that code language?
 1) 735841 2) 753841
 3) 743861 4) 735481
 5) Other than those given as options
65. Among A, B, C, D and E, each having a different height, C is taller than only A. D is shorter than only B and taller than E. Who among the following is the tallest?
 1) A 2) E
 3) C 4) D
 5) Other than those given as options

Test-III: Quantitative Aptitude

Directions (Q. 66-70): What should come in place of question mark(?) in the following questions?

66. $194.751 + 276.233 + 126.021 + 21.753 = ?$
 1) 616.758 2) 618.758 3) 614.878 4) 620.214 5) 681.758
67. $\frac{(23)^{27} \times (23)^{-12}}{?} = (23)^{12}$
 1) $(23)^3$ 2) $(23)^5$ 3) $(23)^{27}$
 4) $(23)^{21}$ 5) None of these
68. $(43.7)^2 - ? = (23.6)^2$
 1) 1452.72 2) 1252.73 3) 1248.57 4) 1452.73 5) 1352.73
69. $52 \times 7 \times ? = 4004$
 1) 13 2) $\sqrt{151}$ 3) 19 4) 11 5) 210
70. $76\% \text{ of } 112 - 42\% \text{ of } 116 = ?$
 1) 29.6 2) 37.8 3) 36.4
 4) 39.8 5) 40.2

Directions (Q. 71-75): What approximate value should come in place of question mark(?) in the following questions?

71. $116.98\% \text{ of } 1468.8 + 5.512\% \text{ of } 159.66 = ?$
 1) 1753 2) 1742 3) 1777
 4) 1728 5) None of these

72. $\sqrt{360.98}$ of $18.99 + 1082.98 \div 57.07 = ?$

- 1) 380 2) 391 3) 392
 4) 403 5) None of these

73. $94.96 \times 13.23 + \sqrt{35.2} \times 15.01 = 53.02 \times ?$

- 1) 29 2) 20 3) 25 4) 17 5) 30

74. $(333.03\% \text{ of } 856) \div 49.95 = ?$

- 1) 53 2) 62 3) 65 4) 57 5) None of these

75. $\sqrt{1852} = ?$

- 1) 44 2) 49 3) 46 4) 42 5) 43

Directions (Q. 76-80): What should come in place of question mark (?) in the following number series?

76. 13 27 56 ? 228 457

- 1) 106 2) 113 3) 124
 4) 173 5) None of these

77. 2478 819 267 ? 24 5

- 1) 104 2) 132 3) 84 4) 97 5) 134

78. 4 6 12 30 90 ?

- 1) 270 2) 360 3) 345
 4) 315 5) None of these

79. ? 2 21 -2 17 -6

- 1) -21 2) 25 3) -53 4) 47 5) 26

80. 1 5 2 ? 104 2620

- 1) 30 2) 13 3) 35 4) 19 5) 37

Directions (Q. 81-85): In each question two equations have been given. On the basis of these you have to find out the relation between x and y. Give answer

1) if $x = y$ or there is no relation between x and y

2) if $x > y$ 3) if $x < y$

4) if $x \geq y$ 5) if $x \leq y$

81. I. $5x^2 - 8x + 3 = 0$

II. $2y^2 - 7y + 5 = 0$

82. I. $12x^2 - x - 1 = 0$

II. $6y^2 - 5y + 1 = 0$

83. I. $17x^2 + 15x - 2 = 0$

II. $3y^2 + 7y + 4 = 0$

84. I. $x^2 - 6x + 8 = 0$

II. $3y^2 - 10y + 7 = 0$

85. I. $8x^2 + 10x + 3 = 0$

II. $5y^2 - 8y + 3 = 0$

86. Rahul's present age is one-sixth of his father's present age. Rahul's father's age will be twice Aman's age after 10 years. If Aman's eighth birthday was celebrated two years ago, then what is Rahul's present age?

- 1) 24 years 2) 10 years 3) 6 years
 4) 5 years 5) 30 years

87. The percentage marks obtained by Anuj in Maths and Science is 60. If he got 90 marks out of 150 in Science, then out of 100 marks Anuj obtained in Maths

- 1) 40 2) 60 3) 30 4) 95 5) 50

88. Dia bought some caps at 20% discount on the original price. The original price of each cap was ₹400. If she made a total savings of ₹2400, how many caps did she buy?

- 1) 8 2) 24 3) 30 4) 12 5) None of these

89. John deposited a certain amount in the bank to earn a compound interest at the rate of 10% per annum. The difference between the interests on the amounts in

the third and the second year is ₹12100. What amount did John deposit?

- 1) ₹110000 2) ₹99000 3) 100000
4) ₹97000 5) None of these

90. Murli earned a profit of ₹30,000 by selling 1000 kg of a mixture of X and Y types of rice at a total price of ₹110000. What was the proportion of X and Y types of rice in the mixture if the cost prices of X and Y types of rice are ₹100 and ₹50 per kg respectively?

- 1) 2 : 5 2) 2 : 3 3) 4 : 1 4) 5 : 2 5) 3 : 2

91. Harish travels at the speed of 40 kmph for 3 hours and 60 kmph for 4.5 hours. In this way he covers three-fifths of the distance. At what average speed should he travel to cover the remaining distance in 4 hours?

- 1) 68 kmph 2) 70 kmph 3) 62 kmph
4) 65 kmph 5) None of these

92. One-fourth of a two-digit number exceeds its one-fifth by 4. What is the two-digit number?

- 1) 40 2) 60
3) Data inadequate 4) 75 5) 80

93. What is the probability of getting a sum '9' from two throws of a dice?

- 1) $\frac{1}{6}$ 2) $\frac{1}{8}$ 3) $\frac{1}{9}$

- 4) None of these 5) $\frac{1}{12}$

94. B alone can do a piece of work in 8 days and A alone in 10 days. A and B undertook to do it for ₹4800. With the help of W, they did it in 4 days. How much is to be paid to A?

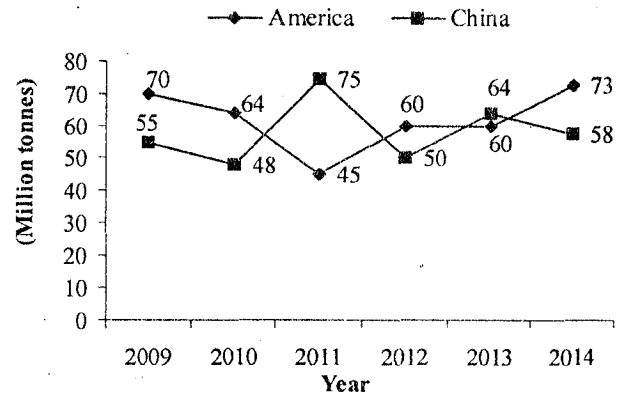
- 1) ₹1200 2) ₹1820 3) ₹1480 4) ₹1920 5) ₹1520

95. The length and breadth of the floor of a room are 20ft and 10ft respectively. Square tiles of 2ft dimension having three different colours are placed on the floor. The first row of tiles on all sides is of blue colour. Out of the remaining, one-third is of black colour and others are of white colour. How many white tiles have been used?

- 1) 16 2) 24 3) 32 4) 42 5) 48

Directions (Q. 96-100): Study the following graph carefully and answer the questions that follow:

Sugar produced by America and China during the period 2009-2014



96. What is the percentage decrease in the production by America in 2010 in comparison to the previous year?

- 1) 9% 2) $8\frac{4}{7}\%$ 3) 6%

- 4) $12\frac{4}{7}\%$ 5) None of these

97. What is the average production of China from 2009 to 2012 (in million tonnes)?

- 1) 63 2) 67 3) 67 4) 57 5) 59

98. What is the ratio of the maximum production to the average production by America?

- 1) 73 : 64 2) 73 : 57 3) 73 : 59
4) 73 : 62 5) None of these

99. What is the difference between the total production of these two countries during the entire period 2009 to 2014 (in million tonnes)?

- 1) 18 2) 26 3) 20 4) 24 5) 22

100. For China during which year there is maximum increase in comparison to the previous year?

- 1) 2010 2) 2011 3) 2012
4) 2013 5) None of these

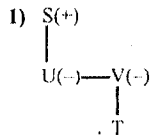
Answers

1. 1; Replace 'did' with 'has done'
 2. 4; Insert 'the' after 'in'
 3. 1; Insert 'It' before 'being'
 4. 3; Replace 'from' with 'since'
 5. 5 6. 3 7. 2
 8. 5 9. 1 10. 4
 11. 3 12. 2 13. 1
 14. 5 15. 1 16. 3
 17. 1 18. 5 19. 4
 20. 3
- (21-25): DAEBFCG
21. 4 22. 3 23. 2 24. 1 25. 5
 26. 3 27. 1 28. 4 29. 2 30. 5

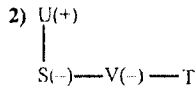
39. 1; No invitation is a rejection (E) + Some rejections are celebrations (I) = E + I = O* = Some celebrations are not invitations. But the possibility in I exists. Hence conclusion I follows but II does not follow.

40. 1; There is no negative statement. Hence conclusion I follows. But conclusion II does not follow.

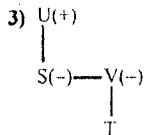
41. 5; Check options one by one:



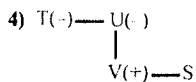
Hence, S is grandfather of T.



Hence, S is sister of T.



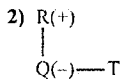
Hence, S is maternal aunt of T.



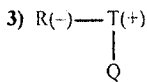
Hence, T is maternal aunt of S.

42. 3; 1) R(-) --- S(-) --- Q

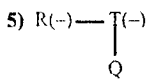
Hence, R is sister of Q.



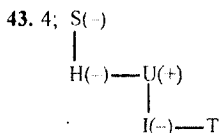
Hence R is father of Q.



Hence R is paternal aunt of Q.



Hence, R is maternal aunt of Q.



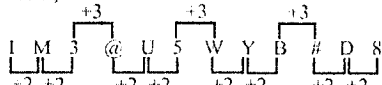
When U is father of I and T, S is paternal grandmother of T.

44. 3; The element is (15 - 6) = 9th from left. Now, ninth from the left is %.

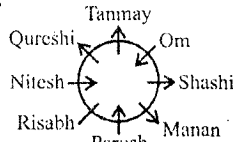
45. 1; There is only one such number: Q3%.

46. 2; There are only three such symbols: @, U, WSY and G*Z

47. 2;



(31-35):



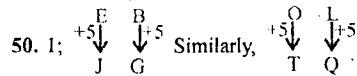
31. 2 32. 5 33. 3 34. 2 35. 2

36. 2; All prices are costs (A) + No cost is an amount = A + E = E = No price is an amount. Now, No price is an amount (E) + All amounts are expenses (A) = E + A = O* = Some expenses are not prices. Hence I does not follow.

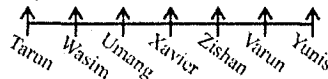
Again, No cost is an amount (E) + All amounts are expenses (A) = E + A = O* = Some

48. 5; All others are consecutive elements.

49. 3; 2 P 90 R 4 Q 4 S 8 = 20 + 90 ÷ 4 × 4 - 8 = 2 + 90 - 8 = 84



(51-55):



51. 3
52. 5; Tarun and Yunis
53. 2 54. 3 55. 3

56. 1; Given statements:

$L \geq M > N \leq O < Q$... (i)
 $R = L$... (ii)

Combining (i) and (ii), we get

$R = L \geq M > N \leq O < Q$

Thus, $R > N$ is true. Hence conclusion I is true. But we can't compare Q and M. Hence II ($Q > M$) is not true.

57. 2; Given statements:

$S \leq T = U \leq F$... (i)
 $M = K > F$... (ii)

Combining (i) and (ii), we get

$S \leq T = U \leq F < K = M$

Thus, $U < M$ is true. But I ($M < U$) is not true. Hence conclusion I is not true.

Again, $S < K$ or $K > S$ is true. Hence only conclusion II is true.

58. 4; Given statements:

$X > I = B < U$... (i)
 $F > C \geq X$... (ii)

Combining (i) and (ii), we get

$F > C \geq X > I = B < U$

We can't compare X and U. Hence I ($U > X$) is not true. Again, $F > I$ or $I < F$ is true. Hence II ($I \geq F$) is not true.

59. 1; Given statements:

$N \geq R = S$... (i)
 $Q > T \leq O < S$... (ii)

Combining (i) and (ii), we get

$N \geq R = S > O \geq T < Q$

Thus, $R > T$ is true. Hence I is true.

Again, II ($N \leq O$) is not true.

60. 2; The colour of milk is white and black means white. Hence the colour of milk is black.

(61-63):

- how are you → la de mo ... (i)
who are you → de ma mo ... (ii)
how you go there → mo sp wa la ... (iii)

From (i), (ii) and (iii),
you → mo ... (iv)

From (i), (ii) and (iv),
are → de ... (v)

From (i), (iii) and (iv),
how → la ... (vi)

From (ii), (iv) and (v),
who → ma ... (vii)

From (iii), (vi) and (iv),
go/there → sp/wa ... (viii)

61. 4 62. 2 63. 5

in II exists. Hence conclusion II follows.
37. 5; All prices are costs (A) + No cost is an amount (E) = A + E = E = No price is an amount. Hence conclusion I follows. Again, No price is an amount (E) + All amounts are expenses (A) = E + A = O* = Some expenses are not prices. Thus, the possibility in II exists. Hence conclusion II follows.

38. 2; Some rejections are celebrations (I) + All celebrations are attractions (A) = I + A = Some rejections are attractions. Hence conclusion I does not follow. But the possibility in II exists from first, second and third statement. Hence conclusion II follows.

64. 4;

Z	I	P	C	O	D	E	A
7	4	2	1	3	5	6	8

So, Z O D I A C
 ↓ ↓ ↓ ↓ ↓ ↓
 7 3 5 4 8 1

65. 5; B > D > E > C > A

Hence B is the tallest among them.

66. 2; ? = 194.751 + 276.233 + 126.021 + 21.753 = 618.758

67. 1; ? = $\frac{(23)^{27} \times (23)^{-12}}{23^{12}} = \frac{(23)^{15}}{(23)^{12}}$

= $(23)^{15-12} = (23)^3$

68. 5; ? = $(43.7)^2 - (23.6)^2$

= 1909.69 - 556.96 = 1352.73

69. 4; ? = $\frac{4004}{52 \times 7} = \frac{4004}{364} = 11$

70. 3; ? = $\frac{76}{100} \times 112 - \frac{42}{100} \times 116$

= 85.12 - 48.72 = 36.4

71. 4; ? ≈ $\frac{117}{100} \times 1469 + \frac{5.5}{100} \times 160$

≈ 1719 + 9 ≈ 1728

72. 1; ? ≈ $\sqrt{361 \times 19} + \frac{1083}{57}$

= 19 × 19 + 19 = 380

73. 3; ? ≈ $\frac{95 \times 13 + \sqrt{36 \times 15}}{53}$

= $\frac{1235 + 90}{53} = \frac{1325}{53} = 25$

74. 4; ? ≈ $\frac{333}{100} \times 856 + 50 = \frac{2850.48}{50} \approx 57$

75. 5; ? ≈ $\sqrt{1849} = 43$

76. 2; The series is ×2 + 1, ×2 + 2, ×2 + 1, ×2 + 2, ... (repeated alternately)

ie 13 × 2 + 1 = 27, 27 × 2 + 2 = 56,

56 × 2 + 1 = 113, 113 × 2 + 2 = 228,

228 × 2 + 1 = 457,

77. 3; The series is +3 - 7, +3 - 6, +3 - 5,

+3 - 4, ...

ie (2478 + 3) - 7 = 819, (819 + 3) - 6 = 267,

(267 + 3) - 5 = 84, (84 + 3) - 4 = 24,

(24 + 3) - 3 = 5, ...

78. 4; The series is ×1.5, ×2, ×2.5, ×3, ×3.5,

×4, ...

ie 4 × 1.5 = 6, 6 × 2 = 12, 12 × 2.5 = 30,

30 × 3 = 90, 90 × 3.5 = 315, ...

79. 2; The series is -23, +19, -23, +19, ...

(repeated alternately)

ie 25 - 23 = 2, 2 + 19 = 21, 21 - 23 = -2,

-2 + 19 = 17, 17 - 23 = -6, ...

80. 1; The series is ×1² + 4, ×2 - 8, ×3² + 12,

×4 - 16, ×5² + 20, ...

ie 1 × 1² + 4 = 5, 5 × 2 - 8 = 2,

2 × 3² + 12 = 30, 30 × 4 - 16 = 104,

104 × 5² + 20 = 2620

81. 5; I. 5x² - 8x + 3 = 0

or, 5x² - 5x - 3x + 3 = 0

or, 5x(x - 1) - 3(x - 1) = 0

or, (5x - 3)(x - 1) = 0

$$\therefore x = 1, \frac{3}{5}$$

II. $2y^2 - 7y + 5 = 0$

or, $2y^2 - 2y - 5y + 5 = 0$

or, $2y(y-1) - 5(y-1) = 0$

or, $(2y-5)(y-1) = 0$

$$\therefore y = 1, \frac{5}{2}$$

Hence $x \leq y$

82. 5; I. $12x^2 - x - 1 = 0$

or, $12x^2 + 3x - 4x - 1 = 0$

or, $3x(4x+1) - 1(4x+1) = 0$

or, $(3x-1)(4x+1) = 0$

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

II. $6y^2 - 5y + 1 = 0$

or, $6y^2 - 2y - 3y + 1 = 0$

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

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

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

Hence $x \leq y$

83. 4; I. $17x^2 + 15x - 2 = 0$

or, $17x^2 + 17x - 2x - 2 = 0$

or, $17x(x+1) - 2(x+1) = 0$

or, $(17x-2)(x+1) = 0$

$$\therefore x = \frac{2}{17}, -1$$

II. $3y^2 + 7y + 4 = 0$

or, $3y^2 + 3y + 4y + 4 = 0$

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

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

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

Hence $x \geq y$

84. 1; I. $x^2 - 6x + 8 = 0$

or, $x^2 - 2x - 4x + 8 = 0$

or, $x(x-2) - 4(x-2) = 0$

or, $(x-4)(x-2) = 0$

$$\therefore x = 2, 4$$

II. $3y^2 - 10y + 7 = 0$

or, $3y^2 - 3y - 7y + 7 = 0$

or, $3y(y-1) - 7(y-1) = 0$

or, $(3y-7)(y-1) = 0$

$$\therefore y = \frac{7}{3}, 1$$

Hence, there is no relation between x and y .

85. 3; I. $8x^2 + 10x + 3 = 0$

or, $8x^2 + 6x + 4x + 3 = 0$

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

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

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

II. $5y^2 - 8y + 3 = 0$

or, $5y^2 - 5y - 3y + 3 = 0$

or, $5y(y-1) - 3(y-1) = 0$

or, $(5y-3)(y-1) = 0$

$$\therefore y = \frac{3}{5}, 1$$

Hence, $x < y$

86. 4; Aman's present age = $8 + 2 = 10$ years

Let Rahul's father's present age be x years.

Then, $x + 10 = 2(10 + 10) = 40$

$$\therefore x = 30$$

$$\therefore \text{Rahul's present age} = \frac{1}{6} \times 30 = 5 \text{ years}$$

87. 2; Total marks = $150 + 100 = 250$

Anuj obtained = 60% of 250 = 150

Therefore, he gets in Maths = $150 - 90 = 60$

88. 3; Dia saves 20% on each cap.

Saved amount on each cap = 20% of 400 = ₹80

$$\therefore \text{She bought } \frac{2400}{80} = 30 \text{ caps}$$

89. 3; Interest for 2 years

$$= 10 + 10 + \frac{10 \times 10}{100} = 21\%$$

$$\text{Interest for 3 years} = 21 + 10 + \frac{21 \times 10}{100}$$

$$= 33.1\%$$

Now, let the principal be P .

Difference = $33.1 - 21 = 12.1\%$

Then, 12.1% of $P = 12100$

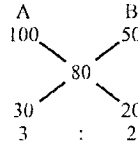
$$\therefore P = \frac{12100 \times 100}{12.1} = ₹1,00,000$$

90. 5; CP of 1000 kg of mixture

= $110000 - 30000 = ₹80,000$

\therefore CP of one kg of mixture = ₹80

By the method of alligation:



$$\text{Reqd ratio} = 3 : 2$$

91. 4; \therefore 60% of total distance

= $40 \times 3 + 60 \times 4.5$

= $120 + 270 = 390 \text{ km}$

$$\therefore \text{Total distance} = \frac{390}{60} \times 100 = 650 \text{ km}$$

$$\therefore \text{Remaining distance} = 650 - 390 = 260 \text{ km}$$

$$\therefore \text{Average speed} = \frac{260}{4} = 65 \text{ kmph}$$

92. 5; Let the two-digit number be $10x + y$.

$$\text{Now, } \frac{1}{4}(10x + y) - \frac{1}{5}(10x + y) = 4$$

or, $50x + 5y - 40x - 4y = 80$

$$\therefore 10x + y = 80$$

93. 3; Let the number of sample space be $n(S)$.

$$\therefore n(S) = 6 \times 6 = 36$$

$n(E)$ = event of getting sum '9'.

$$= \{(3, 6), (4, 5), (6, 3), (5, 4)\}$$

$$\therefore P(E) = \frac{n(E)}{n(S)} = \frac{4}{36} = \frac{1}{9}$$

94. 4; W's one day's work

$$= \frac{1}{4} - \left(\frac{1}{8} + \frac{1}{10} \right) = \frac{1}{4} - \frac{9}{40} = \frac{1}{40}$$

Ratio of B's wage : A's wage : W's wage

$$= \frac{1}{8} : \frac{1}{10} : \frac{1}{40} = 5 : 4 : 1$$

$$\therefore \text{A's wage} = \frac{4}{10} \times 4800 = ₹1920$$

95. 1; Area covered by blue tiles

= $(20 + 20) \times 2 + 2 \times (6 + 6) = 80 + 24$

= 104 sq ft

Area of the floor = $20 \times 10 = 200 \text{ sq ft}$

\therefore Remaining area = $200 - 104 = 96 \text{ sq ft}$

Area covered by black tiles

$$= \frac{1}{3} \times 96 = 32 \text{ sq ft}$$

$$\therefore \text{Area covered by white tiles} = 96 - 32$$

$$= 64 \text{ sq ft}$$

$$\therefore \text{The number of required white tiles} = \frac{64}{2 \times 2}$$

$$= 16$$

96. 2;

$$\% \text{ decrease} = \frac{70 - 64}{70} \times 100 = \frac{60}{7} \% = 8 \frac{4}{7} \%$$

97. 4; Average = $\frac{55 + 48 + 75 + 50}{4} = \frac{228}{4}$

$$= 57 \text{ million tonnes}$$

98. 4; Average production

$$= \frac{70 + 64 + 45 + 60 + 60 + 73}{6} = \frac{372}{6}$$

$$= 62 \text{ million tonnes}$$

Maximum production by America

= 73 million tonnes

\therefore Ratio = 73 : 62

99. 5; Production in America = 372

Production in China = 350

\therefore Difference = $372 - 350$

= 22 million tonnes

100. 2; For year 2010 there is decrease

For year 2011

$$= \frac{75 - 48}{48} \times 100 = \frac{27}{48} \times 100$$

$$= 56.25\% \text{ (increase)}$$

For year 2012 there is decrease

For year 2013

$$= \frac{64 - 50}{50} \times 100 = \frac{14}{50} \times 100 = 28\% \text{ (increase)}$$

For year 2014 there is decrease

Therefore, the maximum increase in the production was in the year 2011.