INSTITUTE OF BANKING PERSONNEL SELECTION
BANK CLERK-2018 PRELIMS PAPER
Based on Memory

PRELIMINARY EXAMINATION (OBJECTIVE)*

Sr. No	Name of Tests	No. of Questions	Maximum Marks	Time allotted for each test (Separately timed)
1.	English Language	30	30	20 minutes
2.	Numerical Ability	35	35	20 minutes
3.	Reasoning Ability	35	35	20 minutes
	Total	**100**	**100**	**60** minutes

Candidates have to qualify in each of the three tests by securing cut-off marks to be decided by IBPS. Adequate number of candidates in each category as decided by IBPS depending upon requirements will be shortlisted for Online Main examination.

INSTRUCTIONS

(i) Do not use calculators, or any electronic medium for calculations. You may take a clean sheet of paper for rough work and all calculations must be performed manually by the candidate.

(ii) There will be penalty for wrong answer marked by you in the objective tests. There are five alternatives in every question of a test.

(iii) For each question for which a wrong answer has been given by you, 1/4 or 0.25 of the marks assigned to that question will be deducted as penalty. If a question is left blank, i.e. no answer is given by you, there will be no penalty for that question.

(iv) There will be a cut off for each section and an overall cut off as well. Hence, your aim should be to answer maximum number of attempts in all three sections.

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ENGLISH LANGUAGE

1. This question comprises three sentences (A), (B) and (C) each of which comprises a sentence using the word OVER. Identify the sentence(s) where the word has been correctly used and select that combination/option as your answer.
   (A) Over 50 percent of the population is below the age of 35.
   (B) The two families fought bitterly over the land.
   (C) He is ready to take over the company.
   (1) All (A), (B) and (C)　　　　(2) Only (C)　　　　　　(3) Only (A)
   (4) Only (A) and (B)　　　　　(5) Only (B) and (C)

2. This question comprises three sentences (A), (B) and (C) each of which comprises a sentence using the word WAIT. Identify the sentence(s) where the word has been correctly used and select that combination/option as your answer.
   (A) Wait your options before investing
   (B) How long must we wait?
   (C) The longer the wait time the less is the chance of recovery
   (1) Only (A) and (C)　　　　　(2) Only (C)　　　　　　(3) Only (B) and (C)
   (4) All (A), (B) and (C)　　　　(5) Only (A)

Directions (Qs.3-10): Read the following passage and answer the given questions. Certain words/phrases are given in **bold** to help you locate them while answering some of the questions.

"What are friends for?" This isn't a rhetorical question. Friendship is one of life's most important features, and one too often taken to for granted. The human desire for companionship may feel boundless, but research suggests that our social capital is finite – we can handle only so many relationships at one time. Social scientists have used a number of ingenious approaches to gauge the size of people's social networks; these have given estimates ranging from about 250 to about 5,500 people. Looking more specifically at friendship, a study using the exchange of Christmas cards as a proxy for closeness put the average person's friend group at about 121 people.

However vast our networks may be, our inner circle tends to be much smaller. The average American trusts only 10 to 20 people. Moreover, that number may be shrinking. From 1985 to 2004, the average number of confidants that people reported having decreased from three to two. This is both sad and consequential, because people who have strong social relationships and friendships tend to live longer than those who don't.

So what should you do if your social life is lacking? To begin with, **don't dismiss the humble acquaintance**. Even interacting with people with whom one has weak social ties has a meaningful influence on well-being. Beyond that, building **deeper** friendships may be largely a matter of putting in time. A recent study out of the University of Kansas found that it takes about 50 hours of socializing to go from acquaintance to casual friend, an additional 40 hours to become a "real" friend, and a total of 200 hours to become a close friend.

If that sound likes too much effort, reviving dormant social ties can be especially rewarding. Reconnected friends can quickly recapture much of the trust they previously built, while offering each other a **dash** of novelty drawn from whatever they've been up to in the meantime. Self-disclosure makes us more likable, and as a bonus, we are more inclined to like those to whom we have bared our soul.

3. Which of the following is **OPPOSITE** in meaning to the word **deeper** as used in the passage?
   (1) lower   (2) financial   (3) transparent (4) hidden   (5) secret

4. Why has the author used the sentence **"don't dismiss the humble acquaintance"**?
   (1) To encourage us to be humble and never bear grudges
   (2) To caution us not to develop too many acquaintances
   (3) To urge us to befriend those who are not financially well off
   (4) None of the given options
   (5) To encourage us to limit our social circles

5. According to the passage, which of the following can be said about friendship?
   (A) It is beneficial for one's well-being
   (B) Studies show that having meaningful friendship increases one's lifespan
   (C) We have the capacity to handle an unlimited number of friendships
   (1) Only (B)   (2) Only (A) and (B)   (3) Only (A)
   (4) None of (A), (B) and (C)   (5) Only (C)

6. Which of the following can be said based on the statistics in the passage?
   (A) The size of social circle varies.
   (B) Americans are very social and of all nationalities have the largest number of friendships.
   (C) Over time the number of close relationships is increasing thanks to social media.
   (1) Only (B) and (C)   (2) Only (C)   (3) Only (A)
   (4) All (A), (B) and (C)   (5) None of these

7. Which of the following does the author advise?
   (1) Make friends
   (2) Have a boundless social circle
   (3) Avoid acquaintance and have real friends
   (4) The value of friendship is exaggerated
   (5) Reigniting dormant friendships is a waste of time

8. Which of the following is the **SAME** in meaning as the word **dash** as used in the passage?
   (1) hurry   (2) little bit   (3) run   (4) discourage   (5) completely ruin

9. Which of the following is/are true in the context of the passage?
   (1) All the given options are true
   (2) We often fail to properly appreciate friendship
   (3) Self-disclosure is risky as people will betray you
   (4) We should not devote much time to acquaintances as these relationships are not important.
   (5) We resent those we have confided in as they know our vulnerabilities

10. Which of the following was/were the conclusions of the University of Kansas study cited in the passage?
    (1) People have vast social networks today
    (2) We are not wired to have too many close relationships at a time
    (3) All the given options can be concluded
    (4) By devoting time one can deepen a friendship
    (5) Most people do not realise the value of friends and family

Directions (Qs.11-16): In each of these questions, a sentence has been divided into four parts denoted by (A), (B), (C) and (D). Read the sentence to find out if there is any grammatical error in it. The error, if any, will be in one part of the sentence. Select that part as your answer. If there is No error in the sentence, select 'No error' as your answer.

11. (A) The anecdote shared/ (B) by the main speaker/ (C) provided some light relief/ (D) at the conference.
    (1) (C)   (2) No error   (3) (D)
    (4) (B)   (5) (A)

12. (A) The candidate's teamwork' skills/ (B) and determination convinced/ (C) the recruiters that he was/ (D) perfect to the job.
    (1) (B)   (2) (A)   (3) (D)
    (4) (C)   (5) No error

13. (A) It is good ideas / (B) to study the culture/(C) and language of the country/ (D) you are going to visit.
    (1) (A)   (2) (D)   (3) (C)
    (4) (B)   (5) No error

14. (A) There has been a hostile/ (B) reaction to the/ (C) government's propose increase/ (D) in petrol prices.
    (1) (A)   (2) No error   (3) (B)
    (4) (C)   (5) (D)

15. (A) The security staff/ (B) went to extremely to / (C) ensure the safety of/ (D) the ministers at the summit.
    (1) (D)   (2) (A)   (3) (C)
    (4) (B)   (5) No error

16. (A) The minister promised/ (B) a written response/ (C) to the journalist's/ (D) question regarding a polls.
    (1) (A)   (2) (C)   (3) (B)
    (4) (D)   (5) No error

17. This question comprises three sentences (A), (B) and (C) each of which comprises a sentence using the word DUE. Identify the sentence(s) where the word has been correctly used and select that combination/option as your answer.
    (A) The next round of talks is not due till January.
    (B) We must pay him his dues.
    (C) Do your due diligence before investing.
    (1) All (A), (B) and (C)   (2) Only (B) and (C)   (3) Only (A)
    (4) Only (A) and (B)   (5) Only (C)

Directions (Qs.18-24): In the given passage there are blanks, each of which has been denoted by (A), (B), (C), (D), (E), (F) and (G). Against each five options are suggested, one of which fits the blank appropriately. Please select the word that fits the blank appropriately and select that word as your answer.

If you are ...**(A)**... up to work yearning to go back to bed, you're not alone. Nearly three quarters of the country's workers do so, a study by a staffing firm found, estimating that employee exhaustion ...**(B)**... the economy billions annually. Some of the massive mistakes that professionals ...**(C)**... to making while on the job included accidentally paying everyone twice and deleting a project that took 1,000 hours to assemble, ...**(D)**... to the survey.

The continued workload that workers have, the stress associated with it, has a lot to do with lack of sleep because they tend to take work home. Apart from the ...**(E)**... on the business, it is simply bad for an individual's health to not get enough sleep. A good night's rest is how the body recovers and returns to a ...**(F)**... state. About a third of working professionals suffer from sleep deprivation on a daily basis. Chronic sleep loss can ...**(G)**... a person's health in many ways, including making you more susceptible to weight gain, high blood pressure, heart disease, diabetes and depression.

18. What will replace **(A)** in the passage?
    (1) arrive   (2) showing   (3) gone
    (4) come   (5) walks

19. What will replace **(B)** in the passage?
    (1) spurns   (2) profits   (3) costs
    (4) downturns   (5) declines

20. What will replace **(C)** in the passage?
    (1) thought   (2) found   (3) confessed
    (4) agreed   (5) decided

21. What will replace **(D)** in the passage?
    (1) according   (2) due   (3) estimated
    (4) designed   (5) hold

22. What will replace **(E)** in the passage?
    (1) impact   (2) affect   (3) problem
    (4) issue   (5) risked

23. What will replace **(F)** in the passage?
    (1) fulfil   (2) vulnerable   (3) enriched
    (4) productive   (5) barren

24. What will replace **(G)** in the passage?
    (1) falters   (2) stressed   (3) guides
    (4) improve   (5) affect

Directions (Qs.25-30): In these questions, a sentence is given, a part of which is highlighted in **bold**. Below the sentence options have been given. Select the option which will make the sentence grammatically and meaningfully correct. If the sentence is correct at it is, select 'No correction required' as the answer.

25. The possibility of failure is the biggest deterrent for **the trying avoiding** risks.
    (1) try for avoid   (2) the trial to avoid
    (3) No correction required   (4) the avoidance   (5) those avoiding

26. A lot rides on the company we keep as the opinions of our peers affect the way **we deal with** circumstances.
    (1) No correction required   (2) we deal by   (3) having dealt with
    (4) to deal on   (5) dealing with

27. The accessibility of Internet and its reach in remote locations is **why reason it** so popular.
    (1) What makes it   (2) why
    (3) No correction required   (4) how result is   (5) the reason for

28. There are only tow locations **which accommodates** all the requirements of our guests.
    (1) No correction required   (2) Which meet   (3) that understood
    (4) likely to accommodated   (5) considerably evaluates

29. She could not **exit her children** out of sight even for a few hours.
    (1) Let her children   (2) like her children   (3) abandon the child
    (4) forced her child   (5) No correction required

30. The author went to law school but **eventually dropped** out due to lack of interest.
    (1) Mostly dropping out   (2) to dropped out   (3) now dropped from
    (4) No correction required   (5) will drops out

NUMERICAL ABILITY

31. Total 900 shirts were produced on Monday and Tuesday together. 5% and 4% of shirts produced on Monday and Tuesday respectively were defective. If number of defective shirts produced on both days was equal, how many shirts were produced on Tuesday?
    (1) 500   (2) 300   (3) 400
    (4) None of these   (5) 600

32. Jar-A contained a mixture of milk and water in the respective ratio of 5 : 1. The difference between quantities of milk and water in Jar-A was 32 litres. If 12 litres of mixture was taken out and 1.5 litres of water added to Jar-A, what will be the new respective ratio between quantities of milk and water in jar-A?
    (1) 11 : 2   (2) 3 : 1   (3) 9 : 2
    (4) 4 : 1   (5) None of these

33. When a 2-digit number (X) is reversed, the number so formed is 63 more than X. If the sum of digits of X is 11, what is the value of 'X + 21'?
    (1) 48   (2) 44   (3) 40
    (4) 50   (5) 52

34. A and B started a business with initial investments in the respective ratio of 3 : 1. At the end of 8 months from the start of business, A left, if B received Rs.8000 as his share of the annual profit, what was the annual profit? (in Rs.)
    (1) 25000   (2) 24000   (3) 32000
    (4) 20000   (5) 30000

35. Bhim invested 28% of his monthly salary of Rs.40000 in mutual funds. He spent the remaining salary in the respective ratio of 1 : 4 : 3 towards house-rent, groceries and medical expenses respectively. What was the difference between the amount invested in mutual funds and that spent towards groceries? (In Rs.)
    (1) 3200   (2) 4000   (3) 2400
    (4) 2800   (5) 3600

Directions (Qs.36-47): What will come in place of question mark (?) in the given questions?

36. ?% of $600 + 2^6 = 400$
    (1) 56   (2) 52   (3) 58
    (4) 48   (5) 64

37. $3300 \div ? + \sqrt{961} = 75$
    (1) 60   (2) 75   (3) 50
    (4) 30   (5) 55

38. $9\frac{7}{12} - ? + 1\frac{1}{6} = 4\frac{1}{2}$
    (1) $6\frac{2}{3}$ (2) $6\frac{1}{4}$ (3) $5\frac{5}{6}$
    (4) $6\frac{1}{2}$ (5) $6\frac{1}{3}$

39. $186 \times 1.5 - 3^4 = ? + 56$

(1) 138   (2) 148   (3) 142
(4) 152   (5) 150

40. $\dfrac{900 - 8^3}{4} = ?$

(1) 95   (2) 99   (3) 98
(4) 94   (5) 97

41. 84% of 500 − 25% of ? = 350

(1) 280   (2) 160   (3) 320
(4) 200   (5) 240

42. $\dfrac{\sqrt{729}}{? + 3^3} = 0.54$

(1) 23   (2) 41   (3) 27
(4) 33   (5) 16

43. $96 - 14 \times 6 + 2 \times ? = 28$

(1) 5   (2) 8   (3) 7
(4) 9   (5) 6

44. $\dfrac{5}{27 - ?} - \dfrac{1}{4} = \dfrac{3}{8}$

(1) 11   (2) 23   (3) None of these
(4) 15   (5) 19

45. $\dfrac{? + 2.8 + 5.6}{3.5 - 2.1} = 15$

(1) 12.6   (2) 12.8   (3) 13.6
(4) 11.4   (5) 10.8

46. $2^{10} \div 2^? \div 2^{14} = \sqrt{256}$

(1) 4   (2) -4   (3) -8
(4) -6   (5) None of these

47. $(63 - ?) \times 15 = 210$

(1) 43   (2) 39   (3) 49
(4) 47   (5) 51

48. If the diagonal of a square of perimeter 60 cm is equal to the length of a rectangle (R) and R's breadth is $10\sqrt{2}\,cm$, what is R's area? (in cm.^{2})

(1) 300   (2) 600   (3) 150
(4) $150\sqrt{2}$ (5) $300\sqrt{2}$

49. Working together, A and B can complete a given task in 24 days. If the efficiencies of A and B are in the respective ratio of 3 : 2, in how many days can B alone complete half of the task?

(1) 10   (2) 18   (3) 30
(4) 20   (5) 15

50. Ram purchased an item at Rs.3200 after getting 2 successive discounts of 20%. How much more would he have saved, had he got a flat discount of 40%? (in Rs.)
(1) 100   (2) 200   (3) 600
(4) 500   (5) 400

Directions (Qs.51-56): Study the table and answer the given questions.

Data regarding number of books sold by 4 stores in 4 months

Months / Stores	April	May	June	July
A	120	60	95	75
B	82	96	59	70
C	89	117	94	65
D	62	80	66	100

51. What was the respective ratio between number of books sold by Store D in June and total number of books sold by stores A and B together in the same month?
(1) 2 : 5   (2) 5 : 8   (3) 3 : 7
(4) 4 : 7   (5) 9 : 14

52. Number of books sold by store C in May was what % more than those sold by store C in July?
(1) 125   (2) 115   (3) 180
(4) 75   (5) 80

53. Out of number of books sold by store B in May, if 1/4th had defects, how many books did not have defects?
(1) 60   (2) 64   (3) 80
(4) 72   (5) 68

54. What was the difference between total number of books sold by store D in May and July together and those sold by store A in the same months together?
(1) 40   (2) 30   (3) 45
(4) 55   (5) 35

55. What was the average number of books sold by stores A, B and C in April?
(1) 99   (2) 97   (3) 94
(4) 95   (5) 98

56. If the stream's speed is 2.5 km/hr and the boat's speed (in still water) is 900% more than the stream's speed, what distance will the boat cover upstream in 4 hours? (in km.)
(1) 90   (2) 110   (3) 80
(4) 85   (5) 100

Directions (Qs.57-59): Study the following information carefully and answer the given questions:

Data regarding number of pairs of shoes (gents' & ladies') sold in 2 days (Saturday and Sunday) by a shopkeeper. 50 pairs of gents' shoes were sold on Sunday, which was 25% of total number of pairs of shoes (gents' + ladies') sold on both days together. Total number of pairs of ladies' shoes sold on both days together was 60% of that of gents' shoes sold on both days together. The number of pairs of ladies' shoes sold on Sunday was 5 less than that sold on Saturday.

57. On Monday, if number of pairs of shoes (gents' + ladies') sold was 25 less than that sold on Sunday, how many pairs of shoes (gents' + ladies') were sold on Monday?
    (1) 70   (2) 60   (3) 90
    (4) 100   (5) None of these

58. On Saturday, what was the respective ratio between the number of pairs of gents' shoes sold and that of ladies' shoes sold?
    (1) 15 : 8   (2) 9 : 4   (3) 15 : 7
    (4) 25 : 8   (5) 5 : 2

59. On Sunday, if each pair of gents' shoes was sold at Rs.400 on an average, what was the revenue earned by selling gents' shoes on Sunday? (in Rs.)
    (1) 30000   (2) 24000   (3) 12000
    (4) 20000   (5) 16000

Directions (Qs.60-64): What will come in place of question mark (?) in the given number series?

60. 5   40   280   1680   8400   ?
    (1) 33800   (2) 32800   (3) 33600
    (4) 34400   (5) 33200

61. 20   10   10   15   30   ?
    (1) 105   (2) 60   (3) 90
    (4) 120   (5) 75

62. 5   4   6   15   ?   275
    (1) 60   (2) 45   (3) 52
    (4) 64   (5) 56

63. 30   31   27   36   20   ?
    (1) 55   (2) 45   (3) 60
    (4) 42   (5) 40

64. 400   394   376   346   ?   250
    (1) 304   (2) 298   (3) 294
    (4) 292   (5) 302

65. Ram covered a total distance of 125 km by car and motorcycle. The car's speed was 50% more than the motorcycle's speed and the times taken to travel by car and that by motorcycle were equal. What distance did Ram cover by motorcycle? (in km.)
    (1) 60   (2) 64   (3) 50
    (4) 90   (5) 75

REASONING ABILITY

Directions (Qs.66-70): The following questions are based on the following five three-digit numbers:

417   258   326   738   681

66. If the positions of the first and the third digits within each number are interchanged, which number thus formed will be second largest number?
    (1) 738   (2) 326   (3) 258
    (4) 417   (5) 681

67. If in each of the given numbers all the digits are arranged in descending order within the number, what will be the sum of all the three digits of the second lowest number thus formed?
    (1) 15   (2) 14   (3) 11
    (4) 13   (5) 12

68. In how many of the given numbers, the sum of the first and third digits is less than the second digit?
    (1) Three   (2) None   (3) One
    (4) Two   (5) More than three

69. If '1' is subtracted from all the even digits and '2' is added to all the odd digits in all the given numbers, in how many numbers thus formed will a digit appear twice?
    (1) None   (2) One   (3) Two
    (4) Three   (5) More than three

70. What will be the product of the first digit of the second highest number and the second digit of the third lowest number?
    (1) 32   (2) 6   (3) 24
    (4) 21   (5) 16

71. If all the digits in the number 728195346 are arranged in descending order within the number, the position(s) of how many digits will remain unchanged?
    (1) None   (2) One   (3) Three
    (4) Two   (5) More than three

Directions (Qs.72-75): In each of the following questions, relationship between different elements is shown in the statements. The statements are followed by two Conclusions numbered I and II. Study the conclusions based on the given statement(s) and select the appropriate answer.

72. **Statement:** $Q \geq W > E \geq R = T < Y$
    Conclusions: I. $Q > R$ II. $R < Y$
    (1) Only Conclusion I is true
    (2) Only Conclusion II is true
    (3) Either Conclusion I or II is true
    (4) Neither Conclusion I nor II is true
    (5) Both Conclusion I and Conclusion II are true

73. **Statement**: F = G < H ≤ J ≥ K > L
    Conclusions: I. H < L   II. J > F
    (1) Only Conclusion I is true
    (2) Only Conclusion II is true
    (3) Either Conclusion I or II is true
    (4) Neither Conclusion I nor II is true
    (5) Both Conclusion I and Conclusion II are true

74. **Statements**: X < C ≤ V < B ≤ N; T ≤ V > H
    Conclusions: I. C < H   II. X > B

75. **Statements**: X < C ≤ V < B ≤ N; T ≤ V > H
    Conclusions: I. T < N   II. N > C

Directions (Qs.76-80): Study the following information carefully and answer the questions given below:

In a certain code language,
'speak to higher authority' is written 'rv jo ma tc'
'to value all leaders' is written as 'yd ll rv ke'
'leaders speak higher' is written as 'ma tc ll'
'higher above all conditions' is written as 'ke ma nz wh'
(All the codes are two letter codes only)

76. What does the code 'll' stand for in the given code language?
    (1) higher   (2) to   (3) leaders
    (4) all   (5) speak

77. What does the code 'nz' stand for in the given code language?
    (1) higher   (2) either 'higher' or 'all'
    (3) leaders   (4) either 'conditions' or 'above'   (5) to

78. What is the code for 'higher' in the given code language?
    (1) tc   (2) ma   (3) ke
    (4) rv   (5) ll

79. Which of the following represents the code for 'value speak' in the given code language?
    (1) tc yd   (2) ll tc   (3) ke ll
    (4) yd rv   (5) rv ke

80. Which of the following may represent the code for 'all authority given' in the given code language?
    (1) rv jo ka   (2) jo ma sb   (3) ke jo wh
    (4) wh ke ma   (5) bs ke jo

Directions (Qs.81-85): Study the following arrangement carefully and answer the questions given below:

M 5 W * A 9 7 + R Ω Q £ J © N β D & 4 # H @ 2 X 8 U % 6 $ L Z

81. If all the symbols are dropped from the given arrangement then which will be the eleventh element from the right end of the given arrangement?
(1) D   (2) E   (3) 3
(4) 4   (5) N

82. Which of the following is eighth element to the left of the fourteenth element from the left end of the given arrangement?
(1) +   (2) A   (3) 9
(4) R   (5) 7

83. How many numbers are there in the given arrangement between the fifth element from the left end and the tenth element from the right end?
(1) One   (2) Three   (3) Two
(4) None   (5) More than three

84. Four of the following five are alike in a certain way based on the given arrangement and so form a group. Which one of them does not belong to the group?
(1) 4H#   (2) %$6   (3) *9A
(4) Q£Ω   (5) MW5

85. How many such symbols are there in the given arrangement, each of which is immediately followed by a letter and also immediately preceded by a number?
(1) Three   (2) One   (3) Four
(4) Two   (5) More than four

86. Five people – A, B, C, D and E – are sitting in a straight line facing north. B sits at an extreme end of the line. Only two people sit between B and E. Only one person sits between E and A. D sits to the immediate right of A. What is the position of C with respect to D?
(1) Second to the right   (2) Immediate right   (3) Third to the left
(4) Second to the left   (5) Can't say

Directions (Qs.87-90): Study the following information carefully and answer the questions given below:

Point C is 9 metre to the east of Point D. Point C is 17 metre to the south of Point E. Point F is 5 metre to the west of Point E. Point G is 25 metre to the south of Point F. Point G is the mid-point of the straight line formed by joining points H and M. Point M is 10 metre to the east of Point G. Point N is 8 metre to the north of Point H.

87. Point Z is 5 metre to the east of Point C, how far and in which direction is Point Z with respect to Point M?
(1) 8 metre towards north
(2) 8 metre towards south
(3) 9 metre towards south
(4) 9 metre towards west
(5) 10 metre towards north

88. In which direction is Point H with respect to Point E?
(1) West
(2) South
(3) South-West
(4) South-East
(5) North East

89. Point T is to the east of Point E and also to the north of Point M, which of the following represents the sum of the lengths of the lines formed by joining Points FT and Points HG?
(1) 30 metre
(2) 20 metre
(3) 15 metre
(4) 40 metre
(5) 25 metre

90. What is the distance between Points N and D?
(1) 8 metre
(2) 5 metre
(3) 9 metre
(4) 10 metre
(5) 6 metre

Directions (Qs.91-95): Study the following information carefully and answer the questions given below:

Eight persons- G, H, I, J, K, L, M and N – graduated in eight different months of the same year viz. February, April, May, June, July, September, November and December.

(**Note**: No other person graduated in any other month of the given year.)

K graduated in a month having only 30 days in one of the months before July. Only three people graduated between K and M. H graduated immediately before M. Only two people graduated between H and N. As many people graduated after N as before L. J graduated immediately after I.

91. How many people graduated between G and J?
(1) Three
(2) None
(3) One
(4) Two
(5) More than three

92. In which of the following months did I graduate?
(1) July
(2) September
(3) April
(4) May
(5) February

93. Who amongst the following graduated immediately before L?
(1) No one
(2) I
(3) M
(4) G
(5) K

94. Which of the following statements is true as per the given arrangement?
(1) None of the given statements is true
(2) M graduated in December
(3) N graduated immediately after G
(4) Only one person graduated between K and L
(5) H graduated in a month having only 30 days

95. M is related to June and I is related to February following a certain pattern based on the given arrangement. To which of the following is N related following the same pattern?
(1) December
(2) September
(3) November
(4) July
(5) April

96. K is the mother of P. P is the daughter of S. U is the father of S and T. T is the uncle of D. How is D related to S?
(1) Can't say   (2) Niece   (3) Son-in-law
(4) Father   (5) Daughter-in-law

97. How many such pairs of letters are there in the word **FAMILIAR**, each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical order?
(1) One   (2) Two   (3) Three
(4) None   (5) More than three

Directions (Qs.98-100): Study the following information carefully and answer the questions given below:

A certain number of people are sitting in a straight line facing north. A sits second to the left of D. Only five people sit between A and J. P sits to the immediate right of J. P sits third from one of the extreme ends of the line. As many People sit between P and D as between A and S. S sits at one of the positions to the left of A. Only one person sits to the left of S.

98. Only one person sits between P and T. What is T's position with respect to D?
(1) Second to the right
(2) Can't say
(3) Second to the left
(4) Fourth to the right
(5) Fourth to the left

99. How many people are sitting in the given line?
(1) 14
(2) 13
(3) 9
(4) 16
(5) 10

100. Which of the following statements is true with respect to the given arrangements?
(A) J sits at one of positions to the right of A
(B) More than seven people sit between S and D
(C) D sits fourth to the right of J
(1) Only C
(2) Both B and C
(3) Only A
(4) All A, B and C
(5) Both A and B

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ANSWER WITH EXPLANATION:

1. **Ans (1): All (A), (B) and (C)**
   Take over = the act of taking control of something.
   Over = higher than
   Fight over = to fight a battle that decides who gets something.

2. **Ans (3): Only (B) and (C)**
   A wait time is how long a patient waits for diagnostic test, surgery or treatment
   Wait (Verb) = kill time; stand by; be patient.

3. **Ans (1): lower**
   Deeper (Adjective) = sound; closer; more profound; intense.
   Lower (Adjective) = cheaper, inferior; minor.

4. **Ans (4):** None of the given options

5. **Ans (2):** Only (A) and (B)

6. **Ans (3):** Only (A)

7. **Ans (1):** Make friends

8. **Ans (2): little bit**
   Dash (Noun) = a small amount of something that you add to something else.

9. **Ans (2):** We often fail to properly appreciate friendship

10. **Ans (3):** All the given options can be concluded

11. **Ans (2): No error**
    Anecdote = a short interesting story about a real person or event.

12. **Ans (3): (D)**
    Perfect (Adjective) = exactly suitable or right.
    Look at the sentences: You'd be perfect for the job.
    The weather's just perfect for swimming.
    Hence, perfect for the job... should be used here.

13. **Ans (1): (A)**
    Here, singular noun i.e., It is a good idea …. Should be used.

14. **Ans (4): (C)**
    Here, participle (Adjective form) i.e., government's proposed increment/increase should be used.
    Proposed (Adjective) = (put forward a plan or suggestion) for consideration by others.

15. **Ans (4): (B)**
    Go to extremes = to do something much more than is usual or reasonable.
    Hence, went to extremes … should be used here.

16. **Ans (4): (D)**
    Response (Noun) = an answer or reaction to something. Here, question regarding polls should be used. The used of article 'a' is superfluous.

17. **Ans (1): All (A), (B) and (C)**
    Due (Adjective) = expected to happen; owed as a debt **Dues** = the official payments.
    Due diligence = reasonable steps taken by a person to avoid committing an offence or a tort.
    Look at the sentence: Parents are at fault as well for not doing due diligence

18. **Ans (4): come**
    Come up = arrive
    Come = come (Past) $\Rightarrow$ come (Past participle)
    Come and go = antonymous relationship

19. **Ans (3): costs**
    Cost (Verb) = to make you lose something
    Spurn (Verb) = reject with disdain
    Downturn (Noun) = a drop in the amount of business

20. **Ans (3): confessed**
    Confess (Verb) = to admit that one has done something wrong
    Agree (Verb) = to have the same opinion

21. **Ans (1): according**
    According to = in a way that agrees with

22. **Ans (1): impact**
    Impact (Noun) = an effect, an impression; the strong effect or influence that something has on a situation.
    Affect (Verb) = to produce an effect upon.

23. **Ans (4): productive**
    Productive (Adjective) = having positive results.
    Vulnerable (Adjective) = able to be easily physically, emotionally or mentally hurt, influenced or attacked.
    Barren (Adjective) = not good enough for plants to grow on.

24. **Ans (5): affect**
    Affect (Verb) = to have an influence on somebody
    Falter (Verb) = to become weak; to lose confidence.
    Look: Subject + can + V_1

25. **Ans (5): those avoiding**
    Those + Gerund + Noun
    Hence, those avoiding risks…..
    Should be used here.

26. **Ans (1):** No correction required

27. **Ans (1): What makes it**
    Here, **What makes it**… should be used.
    As a relative pronoun **what** means 'the things which'.

28. **Ans (2): Which meet**
Here, antecedent of relative pronoun 'which' is locations (Plural). Hence, plural verb i.e., which meet…. Should be used.

29. **Ans (1): Let her children**
Let (Verb) = to allow somebody to do something.
Exit (Noun) = a way out of a public building.
Exit (Verb) = to leave a place.
Hence, let her children ….. should be used here.

30. **Ans (4): No correction required**
Eventually (Adverb) = in the end; finally.
Drop out = to stop doing something before you have completely finished.

31. **Ans (1): 500**
5% of A = 4% of B
∴ A : B = 4 : 5
∴ Shirts produced on Tuesday $= \dfrac{5}{9} \times 900 = 500$

32. **Ans (4): 4 : 1**
M : W = 5 : 1 = 40 : 8
Milk and water taken out = 10*l* and 2*l*
∴ Ratio of Milk and water = (40 − 10) : (8 − 2 + 1.5) = 30 : 7.5 = 4 : 1

33. **Ans (4): 50**
The sum of digits of X = 11
∴ The numbers are 29, 38, 47, 56
Reverse of X − X = 63
∴ Only 29 gives difference 63
∴ Required value = 29 + 21 = 50

34. **Ans (2): 24000**
Ratio of equivalent capitals of A and B for 1 month = 3 × 8 : 12 = 2 : 1
∴ Total profit $= \dfrac{3}{1} \times 8000 = Rs.24000$

35. **Ans (1): 3200**
Amount invested in mutual fund $= \dfrac{28 \times 40000}{100} = Rs.11200$
Remaining salary = 40000 − 11200 = Rs.28800
Expenditure on groceries $= \dfrac{4}{8} \times 28800 = Rs.14400$
∴ Required difference = (14400 − 11200) = Rs.3200

36. **Ans (1): 56**
$\dfrac{? \times 600}{100} + 64 = 400 \Rightarrow ? \times 6 = 400 - 64 = 336 \Rightarrow ? = \dfrac{336}{6} = 56$

37. **Ans (2): 75**
$\dfrac{3300}{?} + \sqrt{961} = 75 \Rightarrow \dfrac{3300}{?} + 31 = 75 \Rightarrow \dfrac{3300}{?} = 75 - 31 = 44 \Rightarrow ? = \dfrac{3300}{44} = 75$

38. Ans (2): $6\frac{1}{4}$

$? = 9\frac{7}{12} + 1\frac{1}{6} - 4\frac{1}{2} \Rightarrow (9+1-4) + \frac{7}{12} + \frac{1}{6} - \frac{1}{2} = 6 + \frac{7+2-6}{12} = 6 + \frac{3}{12} = 6 + \frac{1}{4} = 6\frac{1}{4}$

39. <u>Ans (3): 142</u>

$186 \times 1.5 - 3^4 = ? + 56 \Rightarrow 279 - 81 = ? + 56 \Rightarrow ? = 279 - 81 - 56 = 142$

40. <u>Ans (5): 97</u>

$? = \frac{900 - 8^3}{4} = \frac{900 - 512}{4} \Rightarrow \frac{388}{4} = 97$

41. <u>Ans (1): 280</u>

$\frac{84 \times 500}{100} - \frac{25 \times ?}{100} = 350 \Rightarrow 420 - \frac{?}{4} = 350 \Rightarrow \frac{?}{4} = 420 - 350 = 70$

$\Rightarrow \therefore ? = 70 \times 4 = 280$

42. <u>Ans (1): 23</u>

$\frac{\sqrt{729}}{?+3^3} = 0.54 \Rightarrow \frac{27}{?+27} = 0.54 \Rightarrow ?+27 = \frac{27}{0.54} = 50 \Rightarrow ? = 50 - 27 = 23$

43. <u>Ans (2): 8</u>

$96 - 14 \times 6 + 2 \times ? = 28 \Rightarrow 96 - 84 + 2 \times ? = 28$

$\Rightarrow 12 + 2 \times ? = 28 \Rightarrow 2 \times ? = 28 - 12 = 16$

$? = \frac{16}{2} = 8$

44. <u>Ans (5): 19</u>

$\frac{5}{27-?} = \frac{3}{8} + \frac{1}{4} \Rightarrow \frac{5}{27-?} = \frac{3+2}{8} = \frac{5}{8} \Rightarrow 27 - ? = 8 \Rightarrow ? = 27 - 8 = 19$

45. <u>Ans (1): 12.6</u>

$\frac{?+2.8+5.6}{3.5-2.1} = 15 \Rightarrow \frac{?+8.4}{1.4} = 15 \Rightarrow ?+8.4 = 15 \times 1.4 = 21 \Rightarrow ? = 21 - 8.4 = 12.6$

46. <u>Ans (3): -8</u>

$2^{10} \div 2^? \div 2^{14} = \sqrt{256} \Rightarrow \frac{2^{10}}{2^? \times 2^{14}} = 16 = 2^4 \Rightarrow 2^? \times 2^{14} \times 2^4 = 2^{10} \Rightarrow 2^? \times 2^{18} = 2^{10}$

$2^? = 2^{10-18} = 2^{-8} \Rightarrow ? = -8$

47. <u>Ans (3): 49</u>

$(63-?) \times 15 = 210 \Rightarrow 63 - ? = \frac{210}{15} = 14 \Rightarrow ? = 63 - 14 = 49$

48. <u>Ans (1): 300</u>

Perimeter of square = 60 cm

$\therefore$ Side of square = 60/4 = 15 cm

$\therefore$ Diagonal of square $= 15\sqrt{2}\,cm =$ Length of rectangle

$\therefore$ Area of rectangle $= \left(15\sqrt{2} \times 10\sqrt{2}\right) = 300$ sq.cm

49. Ans (3): 30

Ratio of the efficiencies of A and B = 3 : 2

∴ Respective ratio of time taken = 2 : 3

∴ $\frac{1}{2x} + \frac{1}{3x} = \frac{1}{24} \Rightarrow \frac{3+2}{6x} = \frac{1}{24} \Rightarrow 6x = 5 \times 24 \Rightarrow 6x = 5 \times 24 \Rightarrow x = \frac{5 \times 24}{6} = 20$

50. Ans (2): 200

Let the marked price of item be Rs. x

∴ $x \times \frac{80}{100} \times \frac{80}{100} = 3200 \Rightarrow x = \frac{3200 \times 100}{8 \times 8} = 5000$

Discount = (5000 – 3200) = Rs.1800

Again, Discount of 40% $= \frac{5000 \times 40}{100} = Rs.2000$

∴ Required difference = 2000 – 1800 = Rs.200

51. Ans (3): 3 : 7

Required ratio = 66 : (95 + 59) = 66 : 154 = 3 : 7

52. Ans (5): 80

Books sold by store C: May ⇒ 117; July ⇒ 65

∴ Required percent $= \left(\frac{117-65}{65}\right) \times 100 = \frac{52}{65} \times 100 = 80\%$

53. Ans (4): 72

Required answer $= 96 \times \frac{3}{4} = 72$

54. Ans (3): 45

Required difference = (80 + 100) – (60 + 75) = 180 – 135 = 45

55. Ans (2): 97

Required average $= \frac{120+82+89}{3} = \frac{291}{3} = 97$

56. Ans (1): 90

Speed of boat in still water $= \left(\frac{1000 \times 2.5}{100}\right) = 25$ kmph

∴ Rate upstream of boat = (25 – 2.5) 22.5 kmph

∴ Distance covered in 4 hours = 4 × 22.5 = 90 km

For (Qs.57-59):

Total number of shoes $= \frac{100}{25} \times 50 = 200$

∴ Total Gents: Total ladies = 100 : 60 ⇒ 5 : 3

∴ Gents $= \frac{5}{8} \times 200 = 125$ and Ladies $= \frac{3}{8} \times 200 = 75$

Day	Gents	Ladies
Saturday	75	40
Sunday	50	35

57. <u>Ans (2): 60</u>
Total pairs of shoes sold on Sunday = 50 + 35 = 85 pairs
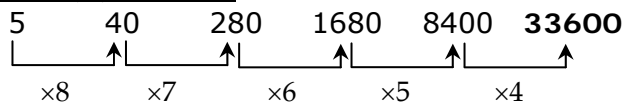Total pairs of shoes sold on Monday = 85 – 25 = 60 pairs

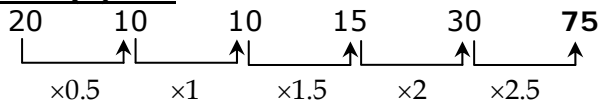**58. <u>Ans (1): 15 : 8</u>**
Required ratio = 75 : 40 = 15 : 8

59. <u>Ans (4): 20000</u>
Required revenue = (50×400) = Rs.20000
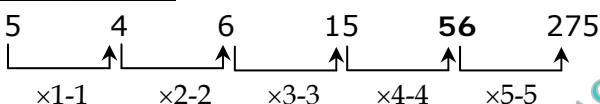
60. <u>Ans (3): 33600</u>
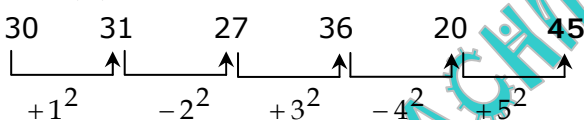
5	40	280	1680	8400	**33600**
×8	×7	×6	×5	×4	

61. <u>Ans (5): 75</u>

20	10	10	15	30	**75**
×0.5	×1	×1.5	×2	×2.5	

62. <u>Ans (5): 56</u>

5	4	6	15	**56**	275
×1-1	×2-2	×3-3	×4-4	×5-5	

63. <u>Ans (2): 45</u>

30	31	27	36	20	**45**
$+1^2$	-2^2	$+3^2$	-4^2	$+5^2$	

64. <u>Ans (1): 304</u>

400	394	376	346	**304**	250
-6	-18	-30	-42	-54	
	-12	-12	-12	-12	
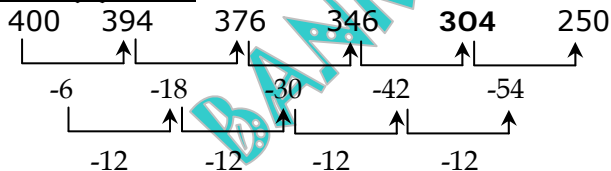
65. <u>Ans (3): 50</u>
Speed of car : Speed of motor cycle = 150 : 100 = 3 : 2
$\therefore$ Distance covered by motorcycle $= \dfrac{2}{5} \times 125 = 50$ km

66. <u>Ans (1): 738</u>
714 852 623 **837** 186
Second largest number = 837 $\Rightarrow$ 738

67. <u>Ans (5): 12</u>
741 852 632 873 861
Second lowest number = 741
Required sum = 7 + 4 + 1 = 12

68. <u>Ans (3): One</u>
$417 \Rightarrow 4 + 7 = 11 > 1$
$258 \Rightarrow 2 + 8 = 10 > 5$
$326 \Rightarrow 3 + 6 = 9 > 2$
$738 \Rightarrow 7 + 8 = 15 > 3$
$681 \Rightarrow 6 + 1 = 7 < 8$

69. <u>Ans (2): One</u>
∴ **33**9 1**77** **5**1**5** 957 573

70. <u>Ans (2): 6</u>
Second highest number $\Rightarrow$ **6**81
Third lowest number $\Rightarrow$ 4**1**7
Required product = $6 \times 1 = 6$

71. <u>Ans (2): One</u>

7	2	8	1	9	5	**3**	4	6
9	8	7	6	5	4	**3**	2	1

The position of only 3 remains unchanged.

72. <u>Ans (5): both Conclusion I and Conclusion II are true</u>
Statement: $Q \geq W > E \geq R = T < Y$
Conclusions: I. $Q > R$ ( ) II. $R < Y$ (✓)

73. <u>Ans (2): only Conclusion II is true</u>
Statement: $F = G < H \leq J \geq K > L$
Conclusions: I. $H < L$ (×) II. $J > F$ (✓)

74. <u>Ans (4): neither Conclusion I nor II is true</u>
Statements: $C \leq V > H; X < C \leq V < B$
Conclusions: I. $C < H$ (×) II. $X > B$ (×)

75. <u>Ans (5): both Conclusion I and Conclusion II are true</u>
Statements: $T \leq V < B \leq N; N \geq B > V \geq C$
Conclusions: I. $T < N$ (✓)   II. $N > C$ (✓)

For (Qs.76-80):

Word	leaders	to	higher	speak	authority	all	value	above/conditions
Code	ll	rv	ma	tc	jo	ke	yd	nz/wh

76. <u>Ans (3): leaders</u>
The code for 'leaders' is ll'.

77. <u>Ans (4): either 'conditions' or 'above'</u>
'nz' is the code for either 'above' or 'conditions'.

78. <u>Ans (2): ma</u>
The code for 'higher' is 'ma'.

79. Ans (1): tc yd

The code for 'value' is 'yd'. The code for 'speak' is 'tc'.

80. Ans (5): bs ke jo

The code for 'all' is 'ke'. The code for 'authority' is 'jo'.
The code for 'given' may be 'bs'

81. Ans (5): N

The new sequence: M 5 W A 9 7 R Q J **N** D 4 H 2 X 8 U 6 L Z
11th element from the right end $\Rightarrow$ N

82. Ans (3): 9

8th element to the left of the 14th element from the left end means 6th element from the left end i.e., 9

83. Ans (2): Three

5th element from the left end $\Rightarrow$ A
10th element from the right end $\Rightarrow$ @
Numbers between A and @: 9 7 4

84. Ans (4): Q£Ω

$4_{+2} \rightarrow H_{-1} \rightarrow \#/\%_{+2} \rightarrow \$_{-1} \rightarrow 6/*_{+2} \rightarrow 9_{-1} \rightarrow A/M_{+2} \rightarrow W_{-1} \rightarrow 5$
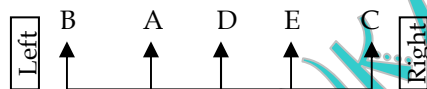But, $Q_{+1} \rightarrow £_{-2} \rightarrow \Omega$
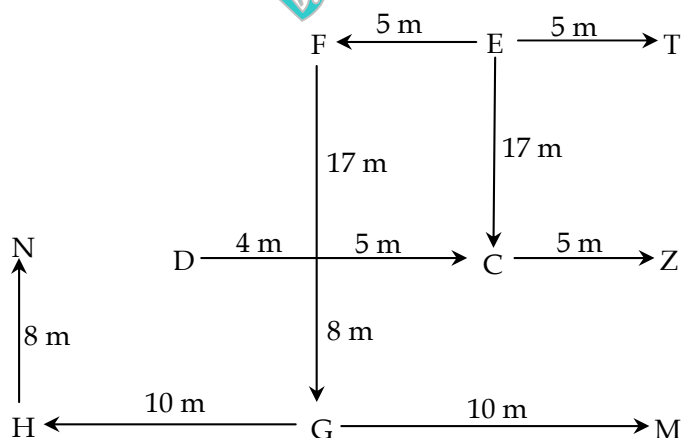
85. Ans (1): Three

Number/Symbol/Letter
Such combinations are: 7 + R, 4 # H, 6 $ L

86. Ans (1): Second to the right

C sits second to the right of D.

For (Qs.87-90):

87. Ans (1): 8 metre towards north

MZ = 8 metre, Point Z is to the north of Point M.

88. Ans (3): South-West
Point H is in South-West direction of Point E.

89. Ans (2): 20 metre
FT = (5 + 5) = 10 metre
HG = 10 metre
Required sum = (10 + 10) = 20 metre

90. Ans (5): 6 metre
ND = (10 – 4) = 6 metre

For (Qs.91-95):

Month	Person
February	L
April	K
May	I
June	J
July	H
September	M
November	G
December	N

91. Ans (4): Two
Two persons – H and M – were graduated between J and G.

92. Ans (4): May
I did his graduation in May.

93. Ans (1): No one

94. Ans (3): N graduated immediately after G
M graduated in September.
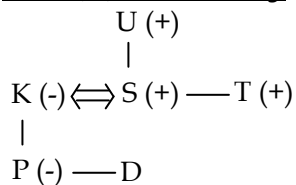K graduated immediately after L.
H graduated in July (31 days).

95. Ans (2): September
M graduated in September. J graduated in June.
Only one person graduated between J and M.
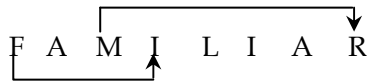Therefore, N graduated in December which is related to September
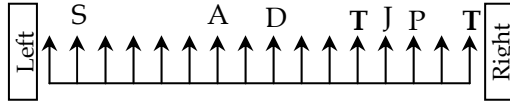
96. Ans (1): Can't say

```
        U (+)
         |
K (-)⟺ S (+) —— T (+)
 |
P (-) —— D
```

Gender of D is not known.

97. **Ans (2): Two**

F A M I L I A R

For (Qs.98-100):

Left S A D **T** J P **T** Right

98. **Ans (2): Can't say**
T is either third or seventh to the right of D.

99. **Ans (4): 16**
16 persons are sitting in the line.

100. **Ans (3): Only A**
Only six persons sit between S and D.
D sits fourth to the left of J.
Therefore, only (A) is true.

"ALL THE BEST"

"PRACTICE MAKES PROGRESS...!

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