

IBPS Clerk Preliminary Grand Test –ICP-181127

HINTS & SOLUTIONS

ANSWER KEY

1. (3)	21. (2)	41. (2)	61. (1)	81. (1)
2. (4)	22. (1)	42. (4)	62. (4)	82. (4)
3. (2)	23. (3)	43. (1)	63. (2)	83. (1)
4. (2)	24. (4)	44. (4)	64. (1)	84. (2)
5. (5)	25. (5)	45. (2)	65. (5)	85. (3)
6. (4)	26. (3)	46. (1)	66. (2)	86. (3)
7. (5)	27. (1)	47. (3)	67. (1)	87. (4)
8. (1)	28. (2)	48. (2)	68. (3)	88. (4)
9. (3)	29. (4)	49. (4)	69. (4)	89. (1)
10. (2)	30. (5)	50. (1)	70. (4)	90. (5)
11. (2)	31. (4)	51. (4)	71. (2)	91. (3)
12. (3)	32. (2)	52. (3)	72. (3)	92. (2)
13. (1)	33. (5)	53. (3)	73. (4)	93. (5)
14. (5)	34. (2)	54. (1)	74. (1)	94. (3)
15. (4)	35. (4)	55. (5)	75. (3)	95. (1)
16. (1)	36. (1)	56. (3)	76. (3)	96. (1)
17. (4)	37. (2)	57. (1)	77. (4)	97. (4)
18. (2)	38. (2)	58. (4)	78. (4)	98. (4)
19. (2)	39. (1)	59. (2)	79. (1)	99. (1)
20. (5)	40. (5)	60. (2)	80. (2)	100. (4)

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1. (3) Option (3) is the correct answer choice. Option (3) can be traced from the 5th paragraph of passage where it is stated as "While underground aquifers are exploited to exhaustion, the popular 'river-training' prescription imprisons our rivers within embankments, according to the inherited Western engineering canon that does not factor in the natural silt carried by rivers of the Himalaya."
2. (4) Option (4) is the correct answer choice. Option (2) can be traced from the 1st paragraph of passage where it is stated as "Ecological ruin is on a gallop across South Asia, with life and livelihood of nearly a quarter of the world's population affected. Yet, our polities are able to neither fathom nor address the degradation." Option (1) is stated in the first line of 2nd paragraph "Within each country, with politics dancing to the tune of populist consumerism, nature is without a guardian." Option (3) can be traced from the last line of the 2nd paragraph where it is stated as "Unfortunately, despite being a vast democracy where people power should be in the driving seat, the Indian state not only neglects its own realm, it

does not take the lead on cross-border environmentalism."

3. (2) Option (2) is the correct answer choice. Option (2) can be traced from the 2nd paragraph of passage where it is stated as "The erosion of civility in geopolitics keeps South Asian societies apart when people should be joining hands across borders to save our common ground."
4. (2) option (2) is the most suitable answer choice. 'Done in'- extremely tired.
5. (5) option (5) is the most suitable answer choice as all the given statements are true. Option (1), (2) and (3) can be traced from the 4th paragraph where it is given as "On water, the subcontinent is running out of the resource due to the demands of industrialization and urbanization, and continuation of the colonial-era irrigation model based on flooding the fields. The economic and demographic forces are arrayed against the rivers and their right-of-way. In the hills, the Ganga in Uttarakhand and the Teesta of Sikkim are representative of rivers that have been converted into dry boulder tracts by 'cascades' of run-of-river hydroelectric schemes." Option (4) can be traced from the 5th paragraph where it is given as "Everywhere, natural drainage is destroyed by highways and railway tracks elevated above the flood line, and bunds encircling towns and cities. Reduced flows and urban/industrial effluents have converted our great rivers into sewers."
6. (4) Option (4) is the best answer choice here. Gallop- a very fast pace of running
All the given options are the antonyms of the given word 'gallop' except option (4)
7. (5) Option (5) is the best answer choice here. Fathom-understand (a difficult problem or an enigmatic person) after much thought
All the given options are different in meaning except 'understand'
8. (1) Perforce- used to express necessity or inevitability. Subliminally- below the threshold of sensation or consciousness
Equivocally- in a deliberately ambiguous or questionable way
Option (1) is the best answer choice here.
9. (3) Denizens- a person, animal, or plant that lives or is found in a particular place
All the given options are the synonyms of the given word 'denizen' except option (3), 'alien'
10. (2) Fate- the development of events outside a person's control, regarded as predetermined by a supernatural power.
All the given options are either the synonyms or altogether different in meaning to the given word 'fate', except option (2).
11. (2) What is 'Greek'? Is it something on which someone could climb? Is it something which could be watched? Is

it something which could be seen? Is it which could be invited? Or is it something which could be read?

Greek has two meanings: one denotes the name of a Language, and the other denotes the name for the citizens of the Greece.

So, among the options, the two contenders for the correct answer are the options (2) and (5). Now, if 'Greek' is a common name attributed to a singular person, then it should be preceded by an article which is missing. The word 'Greek' can't be plural because the word itself is a singular. Hence, the option (5) is also ruled out.

Hence, the correct answer is the option (2).

12. (3) Three eggs can be cracked into a bowl, thrown into a dustbin, stored into a box, but they can't be cooked into a dustbin or cooked into a box. So, the options (2) and (5) are ruled out. Now, among the options (1), (3) and (4), selection of the correct word will be made through analyzing the phrase 'mix them together'. Storing (or throwing) three eggs into a box (or a dustbin) and mixing them together don't make sense. So, the options (1) and (4) are also ruled out.

Hence, option (3) is the correct answer.

13. (1) What would happen to shoes worn by someone playing in the mud? The shoes would get dirty.

If the shoes are dirty, what they would need? They would need a good brush.

Hence, the correct answer is the option (1).

14. (5) Neither the options (1), (2), (3) nor (4), upon filling the blanks, makes a contextually meaningful sentence.

In each of the case, either the words are irrelevant or one of the word, upon filling the blank, contradicts the other word.

The correct answer is the option (5).

15. (4) The options (1), (2), (3) and (5) are completely irrelevant and out-of-context.

Among the given options, the correct answer is the option (4) because the words 'fight, leaving' are the most relevant and appropriate words.

16. (1) There is an error in the part (A). The erroneous phrase is 'will be'. The correct phrase will be 'will cost'. So, the correct answer is option (1).

17. (4) There is an error in the part (D), and the erroneous part is 'is momentous event'. The correct phrase would be 'is a momentous event'. 'Momentous event' is a noun-phrase (noun type- common noun) and should be preceded by an article.

Hence, the correct answer is option (4).

18. (2) There is an error in the part (B), and the error is in the phrase 'companies for the world'. Incorrect preposition 'for' is used in the phrase. The correct preposition to be used is 'around'.

Hence, the correct answer is option (2).

19. (2) There is an error in the part (B) of the sentence, and the erroneous phrase is 'since the past two years'. The usage of 'since' is **incorrect**, and the correct word to be used here is '**for**'.

Hence, the correct answer is option (2).

20. (5) The given sentence is grammatically correct and contextually meaningful. The correct answer is option (5).

21. (2) The correct sequence of sentences for the coherent paragraph is CEABDF.

The sentence (C) provides the theme of the passage which is 'importance of breathing exercises in Yoga'. The sentence (C) should be the first sentence of the coherent paragraph.

The sentence (C) introduces the term 'breathing exercises', while the sentence (E) talks about 'different types of breathing techniques, 'pranayama' is one of them'. The sentence (A) provides what happens in a breathing exercise. Talking about different types of breathing exercises and then, telling about what happens in a breathing exercise is more coherent than first telling about what happens in a breathing exercise and then, talking about different types of breathing exercises. Now, the sentence (E) should be the second sentence of the coherent paragraph and the sentence (A) should be the THIRD sentence of the coherent paragraph. The sentence (B) further talks about or qualifies the information presented in the sentence (A). So, the sentence (B) should be the FOURTH sentence of the coherent paragraph.

The sentence (D) introduces a new aspect to the passage and introduces the term 'Prana' which is further elaborated by the sentence (F). So, the sentence (D) should be the FIFTH sentence of the coherent paragraph, and the sentence (F) should be the SIXTH sentence of the coherent paragraph.

Hence, the final sequence for the coherent paragraph is CEABDF.

So, the option (2) is the correct answer.

The correct sequence of sentences for the coherent paragraph is CEABDF.

The sentence (C) provides the theme of the passage which is 'importance of breathing exercises in Yoga'. The sentence (C) should be the first sentence of the coherent paragraph.

The sentence (C) introduces the term 'breathing exercises', while the sentence (E) talks about 'different types of breathing techniques, 'pranayama' is one of them'. The sentence (A) provides what happens in a breathing exercise. Talking about different types of breathing exercises and then, telling about what happens in a breathing exercise is more coherent than first telling about what happens in a breathing exercise and then, talking about different types of breathing exercises. Now, the sentence (E) should be the second sentence of the coherent paragraph and the sentence (A) should be the THIRD sentence of the coherent paragraph. The sentence (B) further talks about or qualifies the information presented in the sentence (A). So, the sentence (B) should be the FOURTH sentence of the coherent paragraph.

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Hence, the final sequence for the coherent paragraph is CEABDF.

So, the option (1) is the correct answer.

23. (3) The correct sequence of sentences for the coherent paragraph is CEABDF.

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The sentence (C) introduces the term 'breathing exercises', while the sentence (E) talks about 'different types of breathing techniques, 'pranayama' is one of them'. The sentence (A) provides what happens in a breathing exercise. Talking about different types of breathing exercises and then, telling about what happens in a breathing exercise is more coherent than first telling about what happens in a breathing exercise and then, talking about different types of breathing exercises. Now, the sentence (E) should be the second sentence of the coherent paragraph and the sentence (A) should be the THIRD sentence of the coherent paragraph. The sentence (B) further talks about or qualifies the information presented in the sentence (A). So, the sentence (B) should be the FOURTH sentence of the coherent paragraph.

The sentence (D) introduces a new aspect to the passage and introduces the term 'Prana' which is further elaborated by the sentence (F). So, the sentence (D) should be the FIFTH sentence of the coherent paragraph, and the sentence (F) should be the SIXTH sentence of the coherent paragraph.

Hence, the final sequence for the coherent paragraph is CEABDF.

So, the option (3) is the correct answer.

24. (4) The correct sequence of sentences for the coherent paragraph is CEABDF.

The sentence (C) provides the theme of the passage which is 'importance of breathing exercises in Yoga'. The sentence (C) should be the first sentence of the coherent paragraph.

The sentence (C) introduces the term 'breathing exercises', while the sentence (E) talks about 'different types of breathing techniques, 'pranayama' is one of them'. The sentence (A) provides what happens in a breathing exercise. Talking about different types of breathing exercises and then, telling about what happens in a breathing exercise is more coherent than first telling about what happens in a breathing exercise and then, talking about different types of breathing exercises. Now, the sentence (E) should be the second sentence of the coherent paragraph and the sentence (A) should be the THIRD sentence of the coherent paragraph. The sentence (B) further talks about or qualifies the information presented in the sentence (A). So, the sentence (B) should be the FOURTH sentence of the coherent paragraph.

The sentence (D) introduces a new aspect to the passage and introduces the term 'Prana' which is further elaborated by the sentence (F). So, the sentence (D) should be the FIFTH sentence of the coherent paragraph, and the sentence (F) should be the SIXTH sentence of the coherent paragraph.

Hence, the final sequence for the coherent paragraph is CEABDF.

So, the option (4) is the correct answer.

25. (5) The correct sequence of sentences for the coherent paragraph is CEABDF.

The sentence (C) provides the theme of the passage which is 'importance of breathing exercises in Yoga'. The sentence (C) should be the first sentence of the coherent paragraph.

The sentence (C) introduces the term 'breathing exercises', while the sentence (E) talks about 'different types of breathing techniques, 'pranayama' is one of them'. The sentence (A) provides what happens in a breathing exercise. Talking about different types of breathing exercises and then, telling about what happens in a breathing exercise is more coherent than first telling about what happens in a breathing exercise and then, talking about different types of breathing exercises. Now, the sentence (E) should be the second sentence of the coherent paragraph and the sentence (A) should be the THIRD sentence of the coherent paragraph. The sentence (B) further talks about or qualifies the information presented in the sentence (A). So, the sentence (B) should be the FOURTH sentence of the coherent paragraph.

The sentence (D) introduces a new aspect to the passage and introduces the term 'Prana' which is further elaborated by the sentence (F). So, the sentence (D) should be the FIFTH sentence of the coherent paragraph, and the sentence (F) should be the SIXTH sentence of the coherent paragraph.

Hence, the final sequence for the coherent paragraph is CEABDF.

So, the option (5) is the correct answer.

26. (3) The usage of the preposition 'on' is incorrect as per the context of the question. Moreover, an article is missing before the noun-phrase 'long run'.

Among the given options, only alternative (III) is the correct phrase to replace the highlighted part.

Hence, option (3) is the correct answer.

27. (1) The apostrophe 's with everybody is wrong because of the presence of the word 'else'. Now, the 's should be used with the 'else'.

Among the given alternatives, the alternative (I) is correct and hence, option (1) is the correct answer.

28. (2) In the construction 'Noun + Preposition + Noun', both the nouns neighboring the preposition should be singular nouns. So, there is no error in the phrase 'day after day'. But, there is an error in the phrase 'five-rupees note'. In the phrase, 'five-rupees' is an adjective, not noun. So, the word 'rupees' should be singular. The correct phrase should be 'five-rupee'.

Among the given alternatives, the correct alternative is the alternative (III) and hence, the correct answer is option (2).

29. (4) The highlighted phrase is erroneous. The use of the article 'a' is wrong. The correct article to be used is 'the'. Moreover, the use of the helping 'am' is incorrect because when two pronouns are joined by a conjunction 'and', the verb will be plural.

The correct phrase will be 'You and I are the part', so the alternative (III) is correct and hence, the option (4) is the correct answer.

30. (5) The highlighted phrase is grammatically correct and doesn't required further correction. In sentences where the subject is 'everybody, somebody, nobody, anybody, someone, no one, everyone, anyone, everything, something, nothing, anything', the verb is singular.

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31. (4)

$$\begin{array}{ccccccccc} 2 & & 4 & & 11 & & 37 & & 153 & & 771 \\ | & & | & & | & & | & & | & & | \\ \times 1+2 & & \times 2+3 & & \times 3+4 & & \times 4+5 & & \times 5+6 & & \end{array}$$

32. (2)

$$\begin{array}{ccccccccc} 24 & & 12 & & 12 & & 24 & & 84 & & 408 \\ | & & | & & | & & | & & | & & | \\ \times 1-12 & & \times 2-12 & & \times 3-12 & & \times 4-12 & & \times 5-12 & & \end{array}$$

33. (5)

$$\begin{array}{ccccccccc} 2 & & 12 & & 30 & & 56 & & 90 & & 132 \\ | & & | & & | & & | & & | & & | \\ 10 & & 18 & & 26 & & 34 & & 42 & & \\ | & & | & & | & & | & & | & & | \\ 8 & & 8 & & 8 & & 8 & & 8 & & \end{array}$$

Or

$$\begin{array}{ccccccccc} 2 & & 12 & & 30 & & 56 & & 90 & & 132 \\ \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow \\ 1 \times 2 & & 3 \times 4 & & 5 \times 6 & & 7 \times 8 & & 9 \times 10 & & 11 \times 12 \end{array}$$

34. (2)

$$\begin{array}{ccccccccc} 3 & & 8 & & 15 & & 24 & & 35 & & 48 \\ | & & | & & | & & | & & | & & | \\ 5 & & 7 & & 9 & & 11 & & 13 & & \end{array}$$

Or

$$\begin{array}{ccccccccc} 3 & & 8 & & 15 & & 24 & & 35 & & 48 \\ \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow \\ 2^2-1 & & 3^2-1 & & 4^2-1 & & 5^2-1 & & 6^2-1 & & 7^2-1 \end{array}$$

35. (4)

$$\begin{array}{ccccccccc} 18 & & 18 & & 27 & & 54 & & 135 & & 405 \\ | & & | & & | & & | & & | & & | \\ \times 1 & & \times 1.5 & & \times 2 & & \times 2.5 & & \times 3 & & \end{array}$$

36. (1) Message received by Rahul
 $= X \times 0.8 \times 0.75 \times \frac{4}{9} = 24$
 $\Rightarrow X = 24 \times \frac{9}{4} \times \frac{100}{75} \times \frac{100}{80}$
 $= 90$

Quantity I: $1.5X = 1.5 \times 90 = 135$
 Quantity II: $X + 35 = 90 + 35 = 125$
 Quantity I > Quantity II

37. (2) Perimeter of square = $4a = 4 \times 16 = 64$ cm
 Length of rectangle = $\frac{16 \times 16}{8} = 32$
 Perimeter of rectangle = $2(8 + 32) = 80$ cm
 Perimeter of rectangle > Perimeter of square
 Quantity II > Quantity I

38. (2) Let length of train 'A' = 'x' m.
 and speed of train 'A' = '2a' m/sec
 $2a = \frac{x}{20}$ and $2a = \frac{x+60}{25}$
 $\Rightarrow \frac{x}{20} = \frac{x+60}{25}$
 $\Rightarrow 25x = 20x + 1200$
 $\Rightarrow x = \frac{1200}{5} = 240$ m.

Speed of train 'A' = $\frac{240}{20} = 12$ m/sec
 Speed of train 'B' = $\frac{12}{2} \times 3 = 18$ m/sec
 Let length of train 'B' = y m
 ATQ,
 $12 + 18 = \frac{y+240}{15}$
 $\Rightarrow 450 - 240 = y$
 $\Rightarrow y = 210$ m
 Quantity II > Quantity I

39. (1) Let there are total 7x balls in box,
 then number of green balls = 3x
 and number of yellow balls = 4x
 So, number of yellow balls will always be more than number of green balls
 Yellow balls > Green balls
 Quantity I > Quantity II

40. (5) **Quantity I**
 Let upstream speed = x
 Downstream speed = 11x
 Speed of boat = $\frac{1}{2}(x + 11x) = 30$
 $\Rightarrow x = \frac{30 \times 2}{12} = 5$
 \Rightarrow upstream speed = 5 km/hr
 Distance travelled in 10.8 hours in upstream = $5 \times 10.8 = 54$ km

Quantity II

Let speed of stream = y km/hr.

ATQ,
 $\frac{x-18}{15-y} = \frac{x}{15+y}$... (i)

Also,
 $15 + y - (15 - y) = 6$
 $2y = 6$
 $y = 3$... (ii)

From (i) and (ii)
 $\frac{x-18}{12} = \frac{x}{18}$

$x = 54$ km

Quantity I = Quantity II

41. (2)

S.P. → 5.5 lakh

Profit% → 120%

C.P. → $\frac{5.5}{220} \times 100 = 2.5$ lakh

Cost on framing = $\frac{27}{100} \times 2.5$ lakh = Rs. 67,500

Total cost = $\frac{24000}{5} \times 100 = 4.8$ lakh

Profit % = $\frac{1.2}{4.8} \times 100 = 25\%$

42. (4)

Required difference = $\frac{27-5}{35} \times 127400 = 80080$ Rs.

43. (1)

44. (4)

Total Cost = $\frac{48000}{8} \times 100 = 6,00,000$

Required average = $\frac{1}{3} [5 + 13 + 27] \times \frac{6,00,000}{100} = 90,000$

45. (2)

Let C.P. → 3x

Then S.P. → 5x

Profit → 2x

Required ratio = $\frac{3x \times 21}{100 \times 2x} = \frac{63}{200}$

= 63 : 200

46. (1)

The person who got highest share

= $\frac{6}{13} \times 4004$

= 6×308

= Rs. 1848

The person who got lowest share

= $\frac{3}{13} \times 4004$

= $3 \times 308 = 924$

Required difference = $1848 - 924 =$ Rs. 924

47. (3)

Work done by Arjun in 1 day = $\frac{1}{12}$

Work done by Arjun and Tanya in 1 day = $\frac{1}{6}$

Work done by Tanya in 1 day = $\frac{1}{8} - \frac{1}{12} = \frac{1}{24}$

Number of days Tanya need to complete the work = 24 days

Number of days Tanya need to complete

75% of work = $\frac{75}{100} \times 24 = 18$ days

48. (2)

Let the length of train is X m.

When they will travel in opposite directions,

total distance travelled = 2X.

and their speed will add up.

Resultant speed = $\frac{5}{18} \times 72 + 40 \text{ms}^{-1}$

= $20 \text{ms}^{-1} + 40 \text{ms}^{-1} = 60 \text{ms}^{-1}$.

ATQ,

$\frac{2X}{60} = 5 \Rightarrow X = \frac{300}{2} = 150$ meters

49. (4)

Total number of cards = 52

Number of black king in a packet = 2

Required probability = $\frac{2}{52} = \frac{1}{26}$

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50. (1) Let radius of sphere is x m.
 And side of cube is y m.
 Area of sphere = $4\pi x^2$
 Area of cube = $6a^2$
 ATQ,
 $4\pi x^2 = 6a^2$
 $\frac{x^2}{a^2} = \frac{6 \times 7}{4 \times 22}$
 $\frac{x^2}{a^2} = \frac{21}{4 \times 11}$
 $\frac{x}{a} = \frac{\sqrt{21}}{2\sqrt{11}}$

51. (4) $364 - 269 + 50 \times 12 + (20\% \text{ of } 80) = ?$
 $? = 364 - 269 + 600 + (16)$
 $? = 364 - 269 + 37.5$
 $? = 132.5 \approx 133$

52. (3) $\{(20)^2 - (27)^2 + (1400 + 60)\} \div ? = 39$
 $\Rightarrow \{400 - 729 + (1460)\} \div ? = 39$
 $\Rightarrow 1131 \div ? = 39$

53. (3) $\Rightarrow ? = 1131 \div 39 \approx 29$
 $(22\% \text{ of } 900) + ? + (40\% \text{ of } 310) = 481$
 $\Rightarrow 198 + ? + 124 = 481$

54. (1) $\Rightarrow ? = 481 - 198 - 124 = 159$
 $10\% \text{ of } 650 + 32 \times 2800 + 400 - ? = 155$
 $\Rightarrow 65 + 224 - ? = 155$

55. (5) $\Rightarrow ? = 134$
 $?^2 + 114 - 24 \times 5 = 163$
 $?^2 = 163 - 114 + 24 \times 5 = 163 + 6$

56-60. $?^2 = 169 \Rightarrow ? = 13$
 Aakash gave salary of Rs. 48000 to his workers
 Therefore salary given by Disha is $\frac{5}{4} \times 48000$
 = Rs. 60000
 And Salary given by Malik is
 $= \frac{6}{4} \times 48000$
 = Rs. 72000
 Profit of Disha = 520000
 Profit of Aakash = 520000 - 188000 = 332000
 Revenue of Disha = 520000 + 120000 + 60000 = 7 lakhs
 Revenue of Aakash = 332000 + 48000 + 120000 = 5 lakhs
 Revenue of Malik = $\frac{120}{100} \times 5$ lakh = 6 lakhs
 Profit of Malik = [6 lakh - (72000 + 1.20 lakh)] = 4.08 lakhs

56. (3) Revenue of Disha = 7 lakhs
 Profit of Aakash = 3.32 lakh
 Required difference = (7 - 3.32) lakhs = 3.68 lakhs

57. (1) Profit of Malik = Rs. 4.08
 Salary given by Malik = Rs. 72000
 Required difference = 408000 - 72000 = 3.36 lakhs

58. (4) Revenue of Disha = 7 lakhs
 Revenue of Aakash = 5 lakhs.
 Required% = $\left(\frac{7-5}{5}\right) \times 100 = 40\%$

59. (2) Profit of Disha = Rs. 520000
 Revenue of Aakash = Rs. 5 lakhs
 Required % = $\frac{520000 - 5 \text{ lakh}}{5}$
 $= \frac{20000}{500000} \times 100$
 = 4%

60. (2) New revenue of Aakash = 5 lakh $\left[\frac{160}{100}\right]$
 = 8 lakhs
 His new profit = 8 - [1.2 + 1 lakh] = 5.8 lakhs

61. (1) $\frac{215}{9} + \frac{142}{9} - ? = \frac{74}{9}$
 $? = \frac{283}{9} = 31\frac{4}{9}$

62. (4) $\frac{165}{10} \times 18 \times \frac{1}{27} \times 11 + 48 = (?)^2$
 $(?)^2 = 11 \times 11 + 48$
 $(?)^2 = 121 + 48$
 $(?)^2 = 169$
 $? = 13$

63. (2) $101 + 1001 = ? + 841$
 $? = 261$

64. (1) $9240 \times \frac{1}{?} = 440$
 $? = \frac{9240}{440} = 21$

65. (5) $? \times 1211 \times 5 = 24220$
 $? = \frac{24220}{1211 \times 5}$
 $? = 4$

66-69. Let us understand the logic behind the given machine Input.

In each step numbers are arranged from the both ends in each step. In the first step the lowest number is arranged on the left end after addition of 1 and the highest number is arranged from the right end after subtraction of 1 and in the second step second lowest number is arranged at the left end after the addition of 1 and the second highest number is arranged from the right end after subtraction of 1 and so on till the last step.

Input: 31 46 8 95 23 78 19 63

Step I: 9 31 46 23 78 19 63 94

Step II: 20 9 31 46 23 63 94 77

Step III: 24 20 9 31 46 94 77 62

Step IV: 32 24 20 9 94 77 62 45

66. (2) 67. (1)
 68. (3) 69. (4)
 70. (4) F > G > H > J > I

71-75.

Number	Box
7	I
6	Q
5	R
4	P
3	M
2	S
1	L

71. (2) 72. (3)
 73. (4) 74. (1) 75. (3)

76-80. Only two person lives between D and E. D lives on an odd number floor. Only one person sits between C and D. Only two person sits between C and F.

	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6
Floor	Persons	Persons	Persons	Persons	Persons	Persons
7	D		C			
6		F		E	E	F
5	C	D	D	C		
4	E		F		F	E
3		C		D	D	C
2	F	E	E	F		
1					C	D

Only two persons lives between G and F. So, from this statement Case 1, case 2, case 4 and case 6 gets

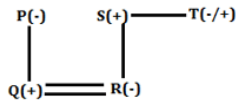
eliminated. More than Three person lives between G and A.

	Case 3	Case 5
Floor	Persons	Persons
7	C	G
6	A	E
5	D	
4	F	F
3		D
2	E	A
1	G	C

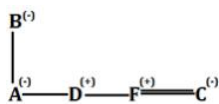
B lives one of the floor below A. So, case 5 gets eliminated and we get our final arrangement.

	Case 3
Floor	Persons
7	C
6	A
5	D
4	F
3	B
2	E
1	G

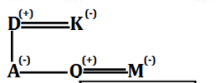
76. (3)
78. (4)
81. (1)



82. (4)



83. (1)



84. (2)

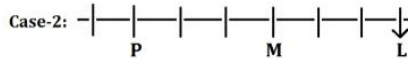
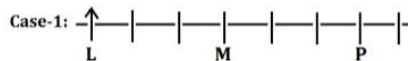


85. (3)

'White' because T alphabet is not in 'OVERWHELMING'.

- 86-90.

(i)- M sits third to the right of L who sits one of the extreme end of the row. Only two persons sit between M and P.



(ii)- S sits third to the right of N who sits second to the left of R. R is facing south and is not an immediate neighbour of M. O sits third to the left of S. By using these conditions case-2 will be eliminated. P is facing same direction as M but opposite to O who sits immediate right of Q who is facing opposite direction to M. Hence M and P are facing north direction and O faces south. The final arrangement is-



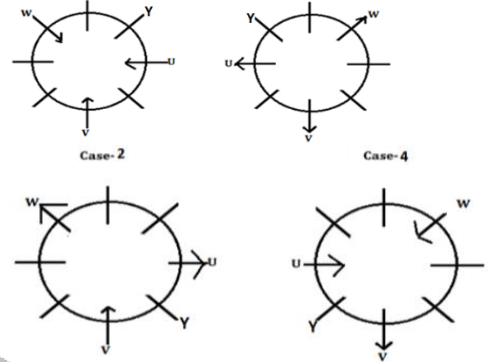
86. (3)
88. (4)
91. (3)
92. (2)
93. (5)
94. (3)

87. (4)
89. (1)
90. (5)

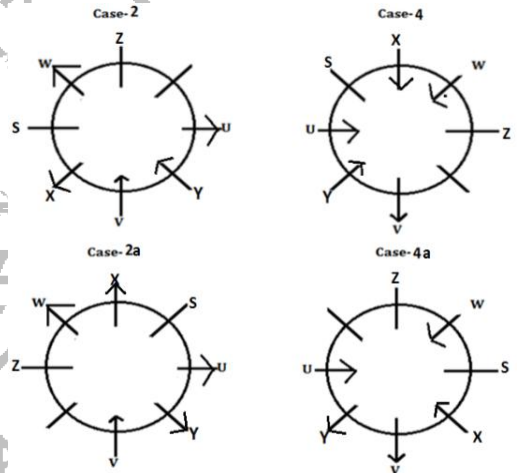
'6 O'
D 5 P K L 8 Z M C 6 Q 1 T N R 4 G B 9 F S W 2 H J V 7 Y X 3
10th +5th = 15th from right = 4
13th -7th = 6th from right = J
'M C I', 'G B A'

95. (1) At same position from left and right-side letter/digit taken like 5 X, 5 is 2nd from left and X is second from right.

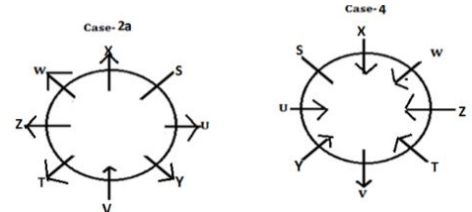
- 96-100. W sits third to the left of V. Two friends sit between W and U, who facing same side as W. Y sits immediate right of U. From these conditions there will be some possible cases-



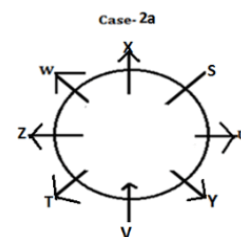
Z sits third to the right of Y. Z does not sit near to V. S sits immediate right of X, who facing same direction as W. By these conditions Case- 1 and Case- 3 are cancelled. Case- 2 and Case-4 will be continued.



T does not sit near to U. So, Case-2 and Case-4a will be eliminated. Rest continued....



Z and T facing same side as Y. T does not face inside the circle. So, case-4 will be eliminated. So the final arrangement will be-



96. (1)
98. (4)

97. (4)
99. (1)

100. (4)