

## IBPS PO Preliminary Grand Test –IPP-180806

### HINTS & SOLUTIONS

#### ANSWER KEY

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

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1. (2) The correct word that would replace the word given in bold to provide the paragraph a comprehensive context is “unwrapped”. The former part of the sentence has already described that the father had received the gift from her daughter [gift that my daughter presented]. Therefore, the gift must be unwrapped to find what is inside it. All the other words fail to comprehend the context of the paragraph. Hence, option (2) becomes the most suitable answer choice.
2. (4) The correct word that should replace the word given in bold should be “snub”. ‘Snub’ is used here as a noun which means an act of rebuffing or ignoring someone or something. It is to be noted that the next sentence of the paragraph uses the conjunction ‘though’ to introduce a contrasting statement from what has been mentioned earlier. Thus, as the next sentence expresses “I was happy inside”, the earlier sentence can be made coherent with a word expressing a contrast of ‘happy’. As, only option (4) perfectly fits grammatically as well as contextually in the paragraph, it becomes the most viable answer choice.
3. (4) To make the sentence coherent with the outline of the paragraph, replace the word given in bold with ‘paltry’. “paltry” is an adjective which is used here to describe the quality of her salary. ‘Paltry’ means (of an amount) very small or meagre. All the other words fail to adhere with the context of the paragraph. Hence, option (4) is the most suitable answer choice.

- Stingy means vulnerable means exposed to the possibility of being attacked or harmed, either physically or emotionally.  
Substantial means of considerable importance, size, or worth.
4. (1) The given sentence of the paragraph can be corrected by replacing the word given in bold with “averse”. It is to be noted that in the article the father has expressed his disliking towards technological gadgets. This can be observed through phrases like [our life had damaged], [would not even spare some moments], [against these modern-day technology]. Thus, the blank should consist of an adjective expressing a disliking towards gadgets. Therefore, ‘averse’ which means having a strong dislike of or opposition to something is the most appropriate word to replace the word given in bold. Hence, option (1) becomes the most suitable answer choice.
- Dotting means extremely and uncritically fond of someone; adoring.  
Desirous means having or characterized by desire.
5. (4) To make the paragraph contextually correct, replace the word given in bold with “invasion”. ‘Invasion’ is a noun which means an unwelcome intrusion into another’s domain. Thus, it perfectly fits in the context of the paragraph. However, other words fail to find relevance with the theme of the paragraph. Hence, option (4) becomes the most viable answer choice.
- Aggression means feelings of anger or antipathy resulting in hostile or violent behaviour; readiness to attack or confront.  
Offense means a breach of a law or rule; an illegal act.
6. (5) The word given in bold is correct and provides precise coherence to the theme of the paragraph. Here, the word ‘fabric’ means the basic structure of a society, culture, activity, etc. Thus, all the other words do not comply with the theme of the paragraph. Hence, option (5) becomes the most suitable answer choice.
- Compilation means the action or process of producing something, especially a list or book, by assembling information collected from other sources.
7. (2) The word given in bold is grammatically incorrect. As, “Concerned” is usually followed by “about” although “for”, “with” and “on” are also grammatically correct. Moreover, the paragraph is describing about the way youngsters are always using their gadgets and fails to pay any attention to their surroundings. Therefore, the most appropriate word that should replace the word given in bold is “glued”. ‘Glued’ is a verb which means be paying very close attention to. Hence, option (2) becomes the most suitable answer choice.
8. (5) The word given in bold is correct and provides precise coherence to the theme of the paragraph. As, the paragraph is describing about the Father’s sour attitude towards the excessive usage of gadgets among the users. ‘Gripes’ is a verb which means complain about something in a persistent, irritating way. Hence, option (5) is the most viable answer choice.

9. (3) The paragraph is describing about the Father's grudges towards the penetration of gadgets among the youngsters. It is to be noted that the phrase in the latter part of the sentence [foolish folks and their virtual world a proverbial fool's paradise] is used by the father to mock the youngsters who are always glued to their gadgets. Therefore, the most suitable word to replace the word given in bold is 'derision'. "derision" is a noun which means contemptuous ridicule or mockery. All the other words fail to fit in the blank of the paragraph. Hence, option (3) is the most suitable answer choice. Commend means praise formally or officially. Applaud means show strong approval of (a person or action); praise.
10. (1) The word given in bold is grammatically incorrect and contextually meaningless. To make the sentence of the paragraph correct, replace the given word in bold by "enslaved". As, it has been mentioned in the paragraph that the father observes the youngsters who are always preoccupied with their gadgets and fail to register their surroundings. Therefore, the most appropriate word that would contextually fit in the given blank is "enslaved". 'Enslaved' is a verb which means make (someone) a slave. All the other words do not comply with the theme of the paragraph. Hence, option (1) becomes the most suitable answer choice. Crossed means pass in an opposite or different direction; intersect. Liberated means (of a person) free from social conventions or traditional ideas.
11. (4) There is an error in part (II) and (III) of the sentence. Remove 'a' before constant. After 'Kind of', 'type of', 'sort of', 'variety of', 'rank of', 'post of' etc. we don't use an article before the noun. However, for interrogative sentences we can use 'a/an'. In part (III) since keep on is already used the sentence will be keep on moving and doing things.
12. (1) The error is in only the part (II) of the sentence. Use 'that' in place of whether as we use 'that' after 'doubt' and 'doubtful' if the sentence is Affirmative 'Negative' or 'Interrogative'. If the sentence is Assertive Affirmative we use 'if' and whether.
13. (3) The error is in part (I) and (II) of the sentence. In part (I) of the sentence the error is in the use of 'of'. We will not use 'of' after 'comprise' as comprise = consist of. In part (II) The noun phrase 'select set' seems to be missing a determiner before it. Consider adding an article 'a' before it.
14. (3) The error is in part (I) and (III) of the sentence. In part (I) remove 'than' and replace it with 'to' because when we use prefer to compare two nouns or gerunds then after 'prefer' we use the preposition 'to' In part (III) use 'avoids' in place of 'avoid' as the subject 'diet' is singular and therefore the verb must be singular.
15. (5) There is no error in the given sentence.
16. (4) Referring to the second paragraph of the passage, we can conclude that rise in ageing population and low fertility rate are responsible for decline in economic growth of China. Since it has been mentioned that a large, young population became the foundation for three decades of economic growth in China . Whereas option (3) is out of the context of the passage. Hence option (4) is the correct choice. Refer the lines "A large, young population together with economic liberalization became the foundation for three decades of economic growth in China."
17. (3) "... But the allowance for two children in late 2015, and the probable removal of population control measures, is a silent admission that the policy that ostensibly contributed to this growth is coming back to bite China." Refer the last paragraph of the passage where it has been mentioned if India does not take action on the challenges it is facing in labor, land acquisition and trade policy, then it will squander its demographic advantage. These are all economic and social sectors. Hence, we can derive that option (3) is the correct choice.
18. (3) "Limited Impact of One- Child Policy" is an appropriate title of the passage. The passage revolves around the theme of limitations of One- Child policy in China and its impact of China's economy. Hence, this title is most suitable one.
19. (5) Refer to the second line of the paragraph, it says, 'World Bank Data shows that China is already ahead of the US in purchasing power parity dollars. Now refer to the fifth paragraph, it cites sooner or later the problem of ageing population is going to affect every developed country. Refer the fifth paragraph of the passage "Australia has not had a recession in the last three decades, despite stagnant per-capita output, because of its rapidly increasing population, which has grown 50% in that period." Hence option (5) is the most appropriate choice It has been mentioned in the fifth paragraph that despite US fertility rate being low at 1.76, it is an outlier in the developed world as it has been historically open to immigrants whose fertility rate is also higher. Hence, we can infer that US is not going to be affected by ageing population. Hence option (4) is the most suitable choice.
20. (4) Ostensibly means stated or appearing to be true, but not necessarily so. Hence it has same meaning as specious. Perforce means used to express necessity or inevitably. Quest means search, lust. Credible means acceptable, believable. Inept means having no skills/ unskillful.
21. (3) Emulate means match or surpass (a person or achievement), typically by imitation. Hence it has same meaning as follow. Predicament means a difficult, unpleasant situation. Perpetual means never ending or changing.
22. (3) Squander means waste (something, especially money or time) in a reckless and foolish manner. Hence it has opposite meaning as supervise. Sceptical means doubtful. Detriment means state of being harmed or damaged. Rigorous means extremely thorough and careful. Unravel means investigate and solve or explain
23. (5) Burgeon means begin to grow or increase rapidly; flourish. Hence it has opposite meaning as shrivel. Gullible means easily persuaded to believe something. Scrupulous means careful. Detritus means waste or debris of any kind. Vagrant means a person without a settled home or regular work who wanders from place to place and lives by begging.
24. (2) Stagnant means showing no activity; dull and sluggish. Hence it has opposite meaning as agile. Succour means help or aid or support. Sedate means calm, dignified, and unhurried. Meticulous means showing great attention. Contrite means feeling or expressing remorse at recognition that one has done wrong.
25. (4)

26. (5) The correct sequence of the sentence after the rearranging them to form a coherent paragraph is EACDB. Hence, option (5) is the most suitable answer choice.
27. (2) The correct sequence of the sentence after the rearranging them to form a coherent paragraph is EACDB. Hence, option (2) is the most suitable answer choice.
28. (4) The correct sequence of the sentence after the rearranging them to form a coherent paragraph is EACDB. Hence, option (4) is the most suitable answer choice.
29. (1) The correct sequence of the sentence after the rearranging them to form a coherent paragraph is EACDB. Hence, option (1) is the most suitable answer choice.
30. (3) The correct sequence of the sentence after the rearranging them to form a coherent paragraph is EACDB. Hence, option (3) is the most suitable answer choice.

31. (4) I.  $3x^2 - 22x + 40 = 0$   
 $3x^2 - 12x - 10x + 40 = 0$   
 $3x(x - 4) - 10(x - 4) = 0$   
 $(3x - 10)(x - 4) = 0$   
 $x = \frac{10}{3}, 4$

II.  $2y^2 - 17y + 36 = 0$   
 $2y^2 - 8y - 9y + 36 = 0$   
 $2y(y - 4) - 9(y - 4) = 0$   
 $(2y - 9)(y - 4) = 0$   
 $y = \frac{9}{2}, 4$   
 $y \geq x$

32. (5) I.  $5x^2 + 7x - 90 = 0$   
 $5x^2 + 25x - 18x - 90 = 0$   
 $5x(x + 5) - 18(x + 5) = 0$   
 $(x + 5)(5x - 18) = 0$   
 $x = -5, \frac{18}{5}$

II.  $3y^2 + 28y + 64 = 0$   
 $3y^2 + 12y + 16y + 64 = 0$   
 $3y(y + 4) + 16(y + 4) = 0$   
 $(3y + 16)(y + 4) = 0$   
 $y = -\frac{16}{3}, -4$

No relation can be established between x & y

33. (1) I.  $x^2 - 14x + 48 = 0$   
 $x^2 - 6x - 8x + 48 = 0$   
 $x(x - 6) - 8(x - 6) = 0$   
 $(x - 8)(x - 6) = 0$   
 $x = 8, 6$

II.  $2y^2 - 19y + 45 = 0$   
 $2y^2 - 10y - 9y + 45 = 0$   
 $2y(y - 5) - 9(y - 5) = 0$   
 $(2y - 9)(y - 5) = 0$   
 $y = \frac{9}{2}, 5$

$x > y$

34. (2) I.  $2x^2 + 13x + 20 = 0$   
 $2x^2 + 8x + 5x + 20 = 0$   
 $2x(x + 4) + 5(x + 4) = 0$   
 $(2x + 5)(x + 4) = 0$   
 $x = -\frac{5}{2}, -4$

II.  $3y^2 + 26y + 56 = 0$   
 $3y^2 + 12y + 14y + 56 = 0$   
 $3y(y + 4) + 14(y + 4) = 0$   
 $(3y + 14)(y + 4) = 0$   
 $y = -\frac{14}{3}, -4$   
 $x \geq y$

35. (5)  $4x^2 - 16x + 15 = 0$   
 $4x^2 - 10x - 6x + 15 = 0$   
 $2x(2x - 5) - 3(2x - 5) = 0$   
 $(2x - 3)(2x - 5) = 0$   
 $x = \frac{3}{2}, \frac{5}{2}$   
 II.  $6y^2 - 23y + 20 = 0$   
 $6y^2 - 8y - 15y + 20 = 0$   
 $2y(3y - 4) - 5(3y - 4) = 0$   
 $(2y - 5)(3y - 4) = 0$   
 $y = \frac{5}{2}, \frac{4}{3}$

No relation can be established between x and y

36. (1) Initial ratio of Urea and potassium in mixture = 18 : 10 = 9 : 5  
 ATQ-  
 $\frac{18 - \frac{9P}{14}}{10 - \frac{5P}{14} + (P - 4.6)} = \frac{7}{6}$   
 $6(252 - 9P) = 7(75.6 + 9P)$   
 $117P = 1512 - 529.2$   
 $117P = 982.8$   
 $P = \frac{982.8}{117}$   
 $P = 8.4 \text{ kg}$   
 Potassium added by farmer  
 $= (8.4 - 4.6)$   
 $= 3.8 \text{ kg}$

37. (2) let radius of smaller circle be r cm and larger circle be R cm  
 ATQ,  
 $r = \frac{R}{3}$  .....(1)

Let area of square =  $a^2$   
 Given,  $a^2 = 225 \text{ cm}^2$   
 $a = 15 \text{ cm}$   
 Radius of larger circle

$R = \frac{15}{5} \times 7 = 21 \text{ cm}$

Radius of smaller circle

$r = \frac{21}{3} = 7 \text{ cm}$

Sum of circumference of both circle

$= 2\pi r + 2\pi R$

$= 2 \times \frac{22}{7} \times 7 + 2 \times \frac{22}{7} \times 21$

$= 44 + 132$

$= 176 \text{ cm}$

38. (4) Let present age of Ankita and Saumya be x and y respectively.  
 $\frac{x - 4}{y - 4} = \frac{9}{7}$

$\Rightarrow -7x + 9y = 8$  .....(i)

Also,

$\frac{x + 8}{y + 8} = \frac{11}{9}$

$\Rightarrow 9x - 11y = 16$  .....(ii)

Solving (i) and (ii)

$x = 58 \text{ yr}$

$y = 46 \text{ yr}$

required average =  $\frac{1}{2}(58 + 46) = 52 \text{ yr}$

39. (4) Distance travelled in each equal part =  $\frac{480}{3} = 160 \text{ km}$

ATQ,

$\frac{160}{x} + \frac{160}{\frac{4x}{5}} + \frac{160}{\frac{x}{2}} = 8.5$

$x = 80 \text{ km/hr}$

Required time =  $\frac{520}{\frac{4 \times 80}{5} + \frac{80}{2}}$

$= \frac{520}{(64 + 40)}$

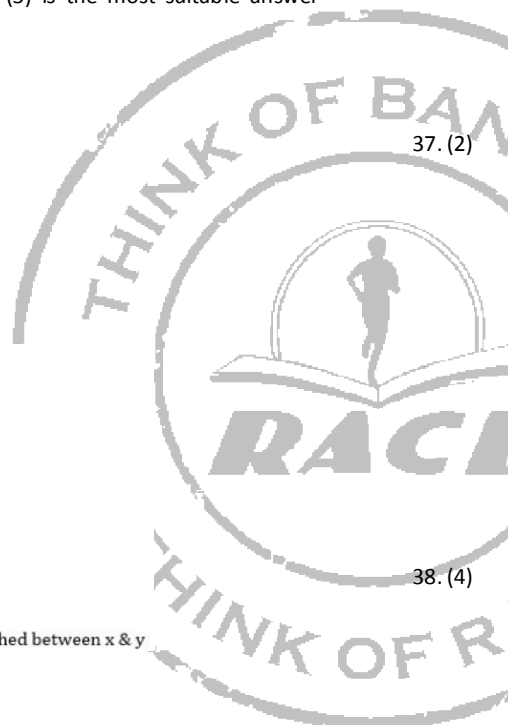
$= 5 \text{ hours}$

40. (5) Total number of tickets = 4 + 5 = 9

Required probability =  $\frac{{}^4C_1 + {}^5C_1}{{}^9C_1}$

$= \frac{4 + 5}{9}$

$= 1$



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41. (4) Total Products sold by Sandeep =  $\frac{624}{65} \times 100 = 960$   
 Total Products sold by Rahul = 800  
 Total Products sold by Amit = 880  
 Total Products sold by Satish =  $\frac{240}{33\frac{1}{3}} \times 100$   
 $= \frac{240 \times 3}{100} \times 100$   
 $= 720$   
 Required % =  $\frac{(960+800)-(880+720) \times 100}{880+720}$   
 $= \frac{1760-1600}{1600} \times 100$   
 $= \frac{160}{1600} \times 100 = 10\%$

42. (1) 'A' type product sold by Amit =  $\frac{137.5}{100} \times 240 = 330$   
 Required % =  $\frac{330}{880-330} \times 100 = \frac{330}{550} \times 100 = 60\%$

43. (3) Total product sold by Ayush =  $\frac{187.5}{100} \times 640$   
 $= \frac{15}{8} \times 640 = 1200$   
 'B' type product sold by Ayush =  $1200 - 540 = 660$   
 'B' type product sold by Arun =  $640 \times \frac{62.5}{100} = 400$   
 Required difference =  $660 - 400 = 260$

44. (5) 'B' type product sold by Satish =  $\frac{240}{33\frac{1}{3}} \times \frac{200}{3} = 480$   
 'B' type product sold by Rahul =  $\frac{480}{4} \times 3 = 360$   
 'A' type product sold by Rahul =  $800 - 360 = 440$   
 'A' type product sold by Arun =  $\frac{640 \times 37.5}{100} = 240$   
 Required Average =  $\frac{440+240}{2}$   
 $= \frac{680}{2} = 340$

45. (1) 'B' type product sold by Sandeep =  $\frac{624}{65} \times 35 = 336$   
 'B' type product sold by Ayush =  $336 \times \frac{5}{4} = 420$   
 Total product sold by Sandeep =  $336 + 624 = 960$   
 Total product sold by Ayush =  $420 + 540 = 960$   
 Required % =  $\frac{960-960}{960} \times 100 = 0\%$

46. (4) Total budget allotted for Rural and urban infrastructure in 2014 =  $(960 + 780) = 1740$  cr  
 Budget allotted for sport in 2014 =  $1740 \times \frac{21}{29}$   
 $= 1260$  cr  
 Required percentage =  $\frac{1260}{1020} \times 100$   
 $= 123\frac{9}{17}\%$

47. (5) Average budget allotted for rural infrastructure development in 2012, 2013 and 2015 =  $\frac{990 + 1050 + 930}{3} = \frac{2970}{3} = 990$  cr  
 Average budget allotted for urban infrastructure development in 2013, 2015 and 2016 =  $\frac{810 + 720 + 840}{3} = \frac{2370}{3} = 790$  cr  
 Required difference =  $990 - 790 = 200$  cr

48. (1) Budget allotted for Rural infrastructure development in year 2014, 2016, 2017 =  $780 + 1050 + 1020 = 2850$  cr  
 Budget allotted for urban infrastructure development in year 2012, 2013 and 2016 =  $630 + 810 + 840 = 2280$  cr  
 Required ratio =  $\frac{2850}{2280} = 5 : 4$

49. (2) Total budget allotted for road construction =  $(990 + 780) \times \frac{30}{100} + (630 + 720) \times \frac{1}{3} = 981$  cr

50. (3) Total budget allotted for rural infrastructure development in 2014 & 2015 =  $780 + 930 = 1710$  cr  
 Total budget allotted for urban infrastructure development in 2015 & 2017 =  $720 + 660 = 1380$  cr  
 Required percentage =  $\frac{1710-1380}{1380} \times 100 = 23\frac{21}{23}\%$

51. (4) Pattern of the series is -  
 15, 47, 83, 127, 187, ? = 279  
 +32, +36, +44, +60, +92  
 +4, +8, +16, +32

52. (2) Pattern if the series -  
 $12 \times 13 = 156$   
 $13 \times 14 = 182$   
 $14 \times 15 = 210$   
 $15 \times 16 = 240$   
 $16 \times 17 = 272$   
 So, ? =  $17 \times 18 = 306$

53. (1)  $32 \times 1.5 = 48$   
 $48 \times 2.5 = 120$   
 $120 \times 3.5 = 420$   
 $420 \times 4.5 = 1890$   
 $1890 \times 5.5 = 10395$

54. (3) Pattern of the series is -  
 $26 \times 2 - 2 = 50$   
 $50 \times 3 - 3 = 147$   
 $147 \times 4 - 4 = 584$   
 $584 \times 5 - 5 = 2915$   
 $2915 \times 6 - 6 = 17484$

55. (5) Pattern of the series is -  
 45, 72, 88, 213, 249, ? = 592  
 +27, +16, +125, +36, +343  
 $\downarrow$   $\downarrow$   $\downarrow$   $\downarrow$   $\downarrow$   
 $3^2$   $4^2$   $5^3$   $6^2$   $7^3$

56. (5) ATQ,  
 $\frac{x}{6+x} = \frac{1}{3} \Rightarrow x = 3$   
 Required probability =  $\frac{{}^4C_2 + {}^2C_2 + {}^2C_2}{{}^9C_2}$   
 $= \frac{6+3+1}{36} = \frac{10}{36} = \frac{5}{18}$

57. (1) Let A, B and C's salary be 6x, 8x and 9x respectively.  
 A saves 80% of his salary  $\Rightarrow$  saving of A =  $6x \times \frac{80}{100} = 4.8x$   
 Let saving of A, B and C be 4y, 4y and 3y respectively  
 But  $4y = 4.8x$   
 $\Rightarrow y = 1.2x$   
 Required % =  $\frac{9x-3y}{9x} \times 100 = \frac{9x-3 \times 1.2x}{9x} \times 100 = \frac{5.4}{9} \times 100 = 60\%$

58. (4) Let sum invested in scheme 'A' = 200x  
 Let sum invested in scheme 'B' = 300x  
 Interest earned from scheme 'A' after 2 years =  $\frac{200x \times 20 \times 10}{100} = 40x$

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Interest earned from schemes 'B' after 2 years

$$= \left[ \left( 1 + \frac{10}{100} \right)^2 - 1 \right]$$

$$= 300x \left[ \frac{21}{100} \right] = 63x$$

$$\text{Required \%} = \frac{63x - 40x}{40x} \times 100$$

$$= \frac{23}{40} \times 100 = 57.5\%$$

59. (4)  $l_1 + l_2 = 540$  ( $l_1$  - is length of train A,  $l_2$  - is length of train B)

Speed of train A =  $\frac{90}{5}$

= 18 m/sec

Speed of train B = 36 m/sec (since ratio of speed of train A to B = 1 : 2)

Required time

$$= \frac{540}{54}$$

= 10 second

60. (4) Suppose speed of the stream = x km/h

Speed of the boat in still water = 10 km/h

∴ Boat will travel with the stream (downstream) at (10 + x) km/h and boat will travel against the stream (upstream) at (10 - x) km/h.

Now, from the question,

$$\frac{36}{10+x} + \frac{90}{60} = \frac{36}{10-x}$$

⇒ x = 2 km/h

61. (4)  $? \times \frac{159.97}{4.98} = 39.93\% \times 420.02 + (5.99 \times \sqrt{6.01})^2$

$$? \times \frac{160}{5} \approx \frac{40}{100} \times 420 + (6\sqrt{6})^2$$

$$? \times 32 \approx 168 + 216$$

$$? = \frac{384}{32} \approx 12$$

62. (5)  $7.99 \times \sqrt{7} = \frac{64.02}{100} \times 599.98 - (4095)^{\frac{2}{3}}$

$$8 \times \sqrt{7} \approx \frac{64}{100} \times 600 - (4096)^{\frac{2}{3}}$$

$$8 \times \sqrt{7} \approx 384 - 256$$

$$\sqrt{7} \approx \frac{128}{8} \approx 16$$

? ≈ 256

63. (2) 75.02% of ? =  $\frac{396.05}{85.04} \times \frac{135.02}{198.09} \times \frac{680.068}{480.045}$

$$\frac{75}{100} \times ? \approx \frac{396}{85} \times \frac{135}{198} \times \frac{680}{45}$$

$$? \approx \frac{48}{3} \times 4$$

? ≈ 64

64. (1) ? % of 25 =  $\sqrt{45 \times 8 + \frac{45}{100} \times 160 - 17^2}$

$$\frac{?}{100} \times 25 = \sqrt{360 + 72 - 289}$$

$$\frac{?}{4} = \sqrt{143}$$

$$\frac{?}{4} \approx \sqrt{144} \approx 12$$

? ≈ 48

65. (3) 77.077% of ? =  $(9.01)^2 + (13.013)^2 + (16.95)^2$

$$\frac{77}{100} \times ? \approx (9)^2 + (13)^2 + (17)^2$$

$$? \approx \frac{100}{77} \times (81 + 169 + 289)$$

$$? \approx \frac{100}{77} \times 539 \approx 700$$

66. (2) I. A > C (True)  
II. R < M (False)
67. (3) I. G = A (False)  
II. G < A (False)
68. (1) I. Y < G (False)  
II. Y < N (True)
69. (3) I. G > M (False)  
II. N < G (False)
70. (5) I. E > M (True)  
II. O > W (True)

71-75. R held rally in Nagaland and after only 2 persons. The first and the second last rally is held in Manipur and Tripura respectively.

Position	Politician	State
1 <sup>st</sup>		Manipur
2 <sup>nd</sup>		
3 <sup>rd</sup>	R	Nagaland
4 <sup>th</sup>		
5 <sup>th</sup>		Tripura
6 <sup>th</sup>		

S held rally before V and Q but is not the first one to hold rally. So, there can be two cases:

**P/T > S > R > V/T/Q > V/T/Q > V/T/Q**  
or  
**P/T > T/P > R > S/N/Q > V/S/Q > Q/V/S**

T held rally after R and before Q. So, from this 2nd case gets eliminated. Proceeding with case 2, neither V nor Q holds rally in Tripura. So, from these conditions V holds rally just before T and Q holds rally at the last. So, T holds rally in Tripura and is 2nd last. P is the first one and holds rally in Manipur. Final arrangement is:

**P > S > R > V > T > Q**

Position	Politician	State
1 <sup>st</sup>	P	Manipur
2 <sup>nd</sup>	S	
3 <sup>rd</sup>	R	Nagaland
4 <sup>th</sup>	V	
5 <sup>th</sup>	T	Tripura
6 <sup>th</sup>	Q	

Also since neither S nor Q holds rally in Mizoram, So V holds rally in Mizoram. The person from Assam held rally before the one who held rally in Meghalaya, So, S holds rally in Assam. The final arrangement is:

Position	Politician	State
1 <sup>st</sup>	P	Manipur
2 <sup>nd</sup>	S	Assam
3 <sup>rd</sup>	R	Nagaland
4 <sup>th</sup>	V	Mizoram
5 <sup>th</sup>	T	Tripura
6 <sup>th</sup>	Q	Meghalaya

71. (5)  
73. (5)  
76-80.

72. (1)  
74. (4)

75. (2)

R lives on an odd numbered floor but not on ground floor which is numbered 1. Two persons live between R and N, who is moving out in September. G lives on an odd numbered floor. Only one person lives between G and L, who does not live above G. Following are the possibilities:

Case 1(a)-

Case 1(b)-

Floor	Person	Month	Person	Month
7	R		R	
6				
5			G	
4	N	September	N	September
3	G		L	
2				
1	L			

Case-2:

Floor	Person	Month
7		
6		
5	R	
4		
3	G	
2	N	September
1	L	

Case-3:

Floor	Person	Month
7	G	
6	N	September
5	L	
4		
3	R	
2		
1		

A, who lives above J and moves out before April but after G. Only two months are left for G and A i.e. February and March respectively. R moves out in month having 31 days but not in May, So R moves out in August. The one living on ground floor moves out in month having 31 days., only month left i.e. May.

A, who lives above J. J lives above T but moved out after T. T does not lives on an odd numbered floor., So case1(b) and case3 gets eliminated. Continuing with Case1(a) and case-2----

Case-1(a):

Floor	Person	Month
7	R	August
6	A	March
5	J	November
4	N	September
3	G	February
2	T	April
1	L	May

Case-2:

Floor	Person	Month
7	A	March
6	J	November
5	R	August
4	T	April
3	G	February
2	N	September
1	L	May

None of the persons moving out in month having 30 days live on odd numbered floor, since In case 1(a), J moved out in November (30 days) but lives on floor 5, therefore case1(a) gets eliminated.

The final arrangement is:

Floor	Person	Month
7	A	March
6	J	November
5	R	August
4	T	April
3	G	February
2	N	September
1	L	May

76. (3)

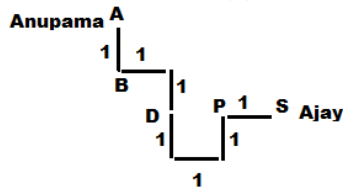
77. (4)

78. (2)

79. (1)

80. (2)

81-82.



81. (4)

82. (2)  $\sqrt{1^2 + 2^2} = \sqrt{5}$  km, south east

83-85.

WORDS	CODES
Recapitalization	pi
Public	bu
assets	se
recover	co
banks	na
expects	xp
sector	Tc

83. (1)

84. (3)

85. (5)

86-90.

R shopped on Friday. Two persons shopped between R and W. No one shopped between W and the one who shopped from shopclues. Three days are between the ones who shopped from shopclues and jabong. We get 2 cases:

Case1

Day	Person	Website
Monday		Shopclues
Tuesday	W	
Wednesday		
Thursday		
Friday	R	Jabong
Saturday		
Sunday		

Case2

Day	Person	Website
Monday		
Tuesday	W	
Wednesday		Shopclues
Thursday		
Friday	R	
Saturday		
Sunday		Jabong

The one who shopped from craftvilla shopped just before the one who shopped from amazon but after W. Shopping on Ebay was done just before the day on which shopping was done from flipkart, none of them on Wednesday . From this we get two more possibilities in case 2.

Case1

Day	Person	Website
Monday		Shopclues
Tuesday	W	
Wednesday		Craftvilla
Thursday		Amozon
Friday	R	Jabong
Saturday		Ebay
Sunday		Flipkart

Case2a

Day	Person	Website
Monday		Ebay
Tuesday	W	Flipkart
Wednesday		Shopclues
Thursday		
Friday	R	Craftvilla
Saturday		Amazon
Sunday		Jabong

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Case2b

Day	Person	Website
Monday		Ebay
Tuesday	W	Flipkart
Wednesday		Shopclues
Thursday		Craftvilla
Friday	R	Amazon
Saturday		
Sunday		Jabong

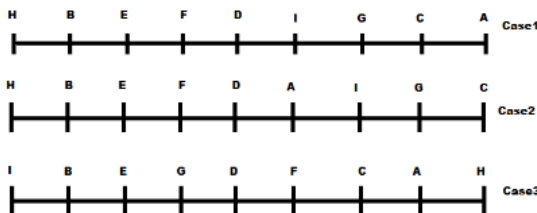
P, shopped from myntra. So case1 gets eliminated. T shopped just after P, So case2a gets eliminated. Two persons between Q and U, who did not shop from Ebay. The final arrangement is:

Day	Person	Website
Monday	Q	Ebay
Tuesday	W	Flipkart
Wednesday	S	Shopclues
Thursday	U	Craftvilla
Friday	R	Amazon
Saturday	P	Myntra
Sunday	T	Jabong

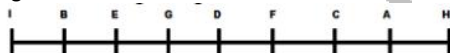
- 86.(3)
- 88. (4)
- 91-95.

- 87. (3)
- 89. (5)
- 90. (5)

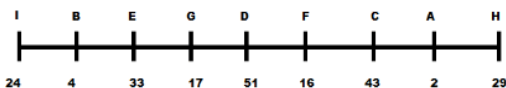
Firstly, solving the sitting arrangement. H sits at one of the extreme end. Two persons sit between H and F. B sits 3rd left to D, who is one of the neighbors of F. E sits to the immediate right to B. The number of persons sitting between I and G is same as between G and C, who sits right to I, we get 3 possibilities:



Since No two persons sit adjacent to each other according to the English alphabet, from this condition case 1 and 2 get eliminated as E and F are sitting together in both the cases, hence final sitting arrangement is:



A has even prime number of toffee, therefore A--- 2 toffees. B, who has double the number of toffees which A has. B ---4 toffees. F, who has number of toffees which is square of the number of toffees which B has, So F --- 16 toffees. I has toffees six times of B, I---24 toffees. G has only 1 toffee more than F, so G---17 toffees. G has one-third number of toffees of D, D---51 toffees. C and H have prime number of toffees which is between 25 and 47, So C and H may have 29, 31, 37, 41, 43 number of toffees. C has 14 more toffees than H, So only possible condition is C ---43 and H---29 toffees. The number of toffees which E has is multiple of 11, but less than C has and more than I. Since C has 43 and I has 24, therefore E --- 33 toffees. The final solution is:



- 91. (2)
- 93. (3)
- 92. (4)
- 94. (4)
- 95. (5)

96-100. E likes pepsi. D belongs to Bhopal. B likes limca. C likes miranda and belongs to Kolkata. G belongs to Delhi.

Person	Cold Drink	Place
A		
B	Limca	
C	Miranda	Kolkata
D		Bhopal
E	Pepsi	
F		
G		Delhi

Since A, D, F do not like sprite so G likes sprite. Further D does not like frooti and since it does not belongs to Bhopal so, it also does not like dew as it is given that the one who likes dew does not belongs to Delhi and Bhopal, only cold drink left is cocacola , So D likes cocacola. Also, A does not like frooti, So F likes frooti and A likes dew.

Person	Cold Drink	Place
A	Dew	
B	Limca	
C	Miranda	Kolkata
D	Cocacola	Bhopal
E	Pepsi	
F	Frooti	
G	Sprite	Delhi

The one who likes frooti and dew does not belong to Chennai and Jaipur, that means A and F do not belong to Jaipur and Chennai, also, B does not belong to Jaipur. Therefore, E belongs to Jaipur & B belongs to Chennai. The one who belongs to Calicut does not like dew ,So, F belongs to Calicut. The final arrangement is:

Person	Cold Drink	Place
A	Dew	Nagpur
B	Limca	Chennai
C	Miranda	Kolkata
D	Cocacola	Bhopal
E	Pepsi	Jaipur
F	Frooti	Calicut
G	Sprite	Delhi

- 96. (1)
- 98. (2)
- 97. (4)
- 99. (3)
- 100. (5)