IBPS Clerk Preliminary Grand Test –ICP-181235

HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (5) The sentence is grammatically correct.
2. (4) 'vivid reason' will be used in place of 'vividly reason' because 'vividly' is an adverb while 'vivid' is an adjective and 'reason' is a noun for which adjective is used to express its qualities.
3. (4) 'had told' will be used in place of 'would have told' as for unreal situation of past, 'Subject + would/ could/ might/ should + have + V3' is used in main clause and 'Subject + had + V3' is used in conditional clause.
    Ex. I would have helped you if you had come earlier.
4. (2) 'what makes/ what has made/ what made' will be used in place of 'what to make'.
5. (2) Use 'live' in place of 'have been lived' as simple present tense is used for work done for some permanent work of present.
6. (3) 'in' will be used in place of 'by'.
7. (2) Use 'why I had' in place of 'who I have' as reporting verb 'asked' is in past tense, hence reported speech must also be in past tense.
    Ex. He asked me who had come.

8. (4) 'among' will be used in place of 'between' as 'between' is used for two persons while 'among' is used for more than two persons.
9. (3) 'quicker and safer than that' will be used in place of 'quick and safe than' as comparative degree is between 'the journey by bus' and 'the journey by train'.
10. (5) The sentence is grammatically correct.
11. (3) Refer to the third paragraph of the passage. "Cash surplus at face value to arrive at the total value of the company."
12. (4) Refer to the first paragraph of the passage. "To value cash there is no need to use complex methodologies such as discounted cash flow (DCF) or to make complex assumptions such as growth rate or discount rate."
13. (4) Sentence (1) and (2) are not correct according to the passage.
14. (2) Valuing large cash surplus at face value without a specific investment plan is the possible exception to the rule of valuation.
15. (2) Refer to third last paragraph of the passage. "Then comes the complex question of how to value cash, which is larger than cash surplus in the normal course of business, nor held for a specific investment and the consideration for transfer of cash is not paid in cash."
16. (3) **Exemption** means the action of freeing or state of being free from an obligation or liability imposed on others. So, concession is the word which is similar in meaning to it.
17. (4) **Extremely** means to a very great degree. So, highly is the word which is similar in meaning to it.
18. (2) **Vaguer** means of uncertain, indefinite, or unclear character or meaning. So, ambiguous is the word which is similar in meaning to it.
19. (2) **Magnitude** means the great size or extent of something. So, size is the word which is similar in meaning to it
20. (5) **Assumption** means a thing that is accepted as true or as certain to happen. So, doubt is the word which is opposite in meaning to it.

21. (2)
22. (2)
23. (4)
24. (5)
25. (2)
26. (1)
27. (4)
28. (5)
29. (1)
30. (3)
31. (3) Required cost price $= \frac{100}{120} \times \frac{100}{125} \times \frac{100}{110} \times 990$
    $= Rs. 600$
32. (4) Required number of selections $= {}^{12}c_{10} \times {}^{2}c_1$
    $= \frac{12 \times 11 \times 2}{2} = 132$
33. (1) Required age of 15th member $= (15 \times 15) - (14 \times 5) - (9 \times 16)$
    $= 225 - 70 - 144$
    $= 11$ years.

34. (4) Required probability $= \dfrac{{}^5C_3 \times {}^4C_2 + {}^5C_4 \times {}^4C_1 + {}^5C_5 \times {}^4C_0}{{}^9C_5}$

$= \dfrac{81}{126} = \dfrac{9}{14}$

35. (1) Let his actual speed and time be x km / h and y hours respectively. Then,

$xy = \dfrac{1}{3}x \times (y+1)$

or, $xy = \dfrac{1}{3}xy + \dfrac{1}{3}x$

or, $y = \dfrac{1}{2}$ hr.

36. (1) ? = 5612 – 1394 = 4218

37. (5) ? = 4207 – 3007 = 1200

38. (1) ? = 21 × 41 – 89 = 772

39. (3) ? = 55.8 + 7.2 – 38.2 = 24.8

40. (2) ? = 589.57

41. (3) Required average

$= \dfrac{1}{2}\left(\dfrac{10}{25} \times 9{,}200 + \dfrac{9}{20} \times 8{,}600\right)$

$= \dfrac{1}{2} \times (3{,}680 + 3{,}870)$

$= 3{,}775$

42. (5) Women died in year 2012 and 2014 together

$= \dfrac{4}{11} \times 8{,}800 + \dfrac{11}{25} \times 7{,}500$

$= 6{,}500$

∴ Required percentage

$= \dfrac{6{,}500}{8{,}800} \times 100$

$= 73.86\%$

43. (3) Total persons died in the year 2016

$= \dfrac{80}{100} \times 6{,}000$

$= 4{,}800$

∴ Required no. of men

$= \dfrac{3}{4} \times 4{,}800$

$= 3{,}600$

44. (2) Required answer

$= \dfrac{3}{11} \times 8{,}800 + \dfrac{2}{20} \times 8{,}600 + \dfrac{3}{25} \times 7{,}500$

$= 4{,}160$

45. (1) No. of men died in the year 2012

$= \dfrac{7}{11} \times 8{,}800$

$= 5{,}600$

No. of women died in the year 2014

$= \dfrac{11}{25} \times 7{,}500$

$= 3{,}300$

∴ Required percentage

$= \dfrac{5{,}600 - 3{,}300}{3{,}300} \times 100$

$\simeq 70\%$

46. (3) 12 + 15 + 11 × ? = 49

11 × (?) = 49 – 27

$? = \dfrac{22}{11} = 2$

47. (1) $(0.6)^4 \times \dfrac{(0.6)^4 \times (0.6)^3}{(0.6)^6} = (0.6)^?$

$(0.6)^{11-6} = (0.6)^?$

? = 5

48. (2) $\dfrac{38}{100} \times 295 + \dfrac{62}{100} \times 445 = ?$

$\dfrac{11210}{100} + \dfrac{27590}{100} = ?$

$? = \dfrac{38800}{100} = 388$

49. (4) $\dfrac{15}{4} \times \dfrac{2}{5} \times \dfrac{9}{2} + \dfrac{7}{4} = ?$

$? = \dfrac{27}{4} + \dfrac{7}{4} = \dfrac{34}{4}$

$? = 8.5 = 8\dfrac{1}{2}$

50. (5) $\dfrac{44800}{320} \times 3 = \dfrac{2156}{14} + (?) - \dfrac{1728}{144}$

$140 \times 3 = 154 - 12 + ?$

? = 278

51. (3) Let cost price = Rs. 100

∴ Marked price = 125

∴ Total selling price

$= \dfrac{3}{4} \times 125 + \dfrac{1}{8} \times \dfrac{64}{100} \times 125$

$+ \dfrac{1}{8} \times \dfrac{80}{100} \times 125$

= 93.75 + 10 + 12.5

= 116.25

∴ % profit = 116.25 – 100

= 16.25%

52. (1) Let B's share is Rs. x

$\dfrac{5x}{4} + x + \dfrac{4x}{3} = 731$

$\therefore \Rightarrow x = \dfrac{731 \times 12}{43}$

$\Rightarrow x = Rs. 204$

∴ C's share $= \dfrac{4}{3} \times 204$

= Rs. 272

53. (3) Total favourable ways
= (1, 6) or (2, 5) or (3, 4) or (6, 1) or (5, 2) or (4, 3)
= 6

∴ Probability $= \dfrac{6}{36} = \dfrac{1}{6}$

54. (1) Total no. of arrangements of the letters of the word UNIVERSITY $= \dfrac{10!}{2!}$

No. of arrangements when both I's are together = 9!

So, the no. of ways in which 2 I's do not together $= \dfrac{10!}{2!} - 9!$

∴ Required probability $= \dfrac{\frac{10!}{2!} - 9!}{\frac{10!}{2!}} = \dfrac{10! - 9!2!}{10!} = \dfrac{4}{5}$

55. (1) Let r be the radius of the circle.

$2\pi r = 88$ = Perimeter of the square $\Rightarrow r = 14$

∴ Area of the circle $= \pi r^2$

$= \dfrac{22}{7} \times 14 \times 14$ sq. cm.

$= 616\ cm^2$

56. (5)

(i) $x^2 - 12x + 32 = 0$
$x^2 - 8x - 4x + 32 = 0$
$x(x - 8) - 4(x - 8) = 0$
$(x - 8)(x - 4) = 0$
$x = 8, 4$

(ii) $y^2 - 20y + 96 = 0$
$y^2 - 12y - 8y + 96 = 0$
$y(y - 12) - 8(y - 12) = 0$
$(y - 8)(y - 12) = 0$
$y = 8, 12$
$y \geq x$

57. (2)

(i) $2x^2 - 3x - 20 = 0$
$2x^2 - 8x + 5x - 20 = 0$
$2x(x - 4) + 5(x - 4) = 0$
$(x - 4)(2x + 5) = 0$
$x = 4, -5/2$

(ii) $2y^2 + 11y + 15 = 0$
$2y^2 + 6y + 5y + 15 = 0$
$2y(y + 3) + 5(y + 3) = 0$
$(2y + 5)(y + 3) = 0$
$y = \dfrac{-5}{2}, -3$
$x \geq y$
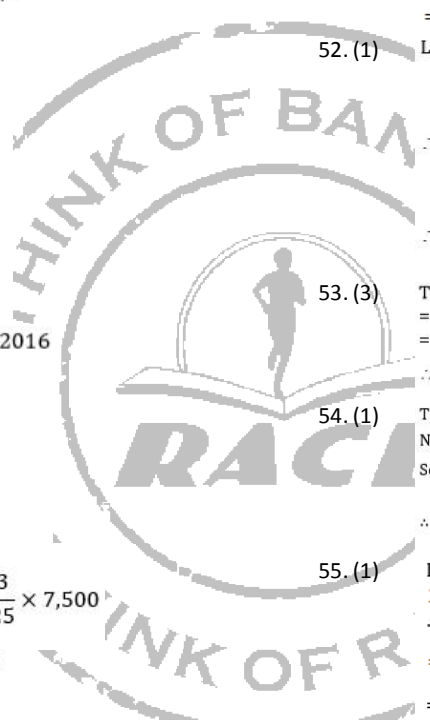
58. (3) (i) $x^2 - x - 6 = 0$
$x^2 - 3x + 2x - 6 = 0$
$x (x - 3) + 2 (x - 3) = 0$
$(x - 3) (x + 2) = 0$
$x = 3, -2$
(ii) $y^2 - 6y + 8 = 0$
$y^2 - 2y - 4y + 8 = 0$
$y (y - 2) - 4 (y - 2) = 0$
$(y - 2) (y - 4) = 0$
$y = 2, 4$
No relation can be established between x and y

59. (3) (i) $x^2 + 14x - 32 = 0$
$x^2 + 16x - 2x - 32 = 0$
$x (x + 16) - 2 (x + 16) = 0$
$(x - 2) (x + 16) = 0$
$x = -16, 2$

(ii) $y^2 - y - 12 = 0$
$y^2 - 4y + 3y - 12 = 0$
$y(y - 4) + 3 (y - 4) = 0$
$(y + 3) (y - 4) = 0$
$y = -3, 4$
No relation

60. (1) (i) $x^2 - 9y + 20 = 0$
$x^2 - 5y - 4y + 20 = 0$
$x (x - 5) - 4 (y - 5) = 0$
$(x - 4) (x - 5) = 0$
$x = 4, 5$

(ii) $2y^2 - 12y + 18 = 0$
$2y^2 - 6y - 6y + 18 = 0$
$2y (y - 3) - 6 (y - 3) = 0$
$(2y - 6) (y - 3) = 0$
$y = 3, 3$
$x > y$

61. (3) ? = 90 + 75 − 135 = 30

62. (2) $? = \dfrac{90}{9}$
$= 10$

63. (4) $? = \dfrac{20}{7} + \dfrac{45}{14} - \dfrac{31}{14}$
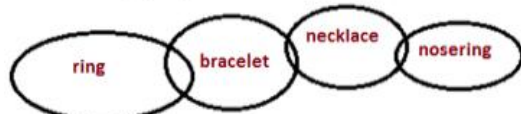$= \dfrac{27}{7} = 3\dfrac{6}{7}$

64. (3) ? = 4,760

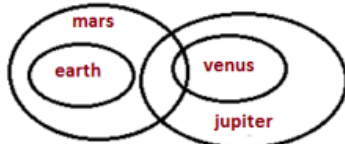65. (4) $? \times \dfrac{35}{10} = 500 - 325$
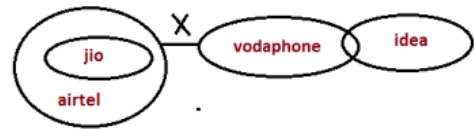$\Rightarrow ? = 50$

66. (4)

67. (2)

68. (1)

69. (4)

70. (2)

71-75.

Name	galaxy	planet
J	Y	Mars
U	Y	Pluto
P	Z	Venus
I	Z	Saturn
T	Y	Earth
E	X	Jupiter
R	X	Neptune

71. (2)
72. (1)
73. (5)
74. (3)
75. (5)

76-80.
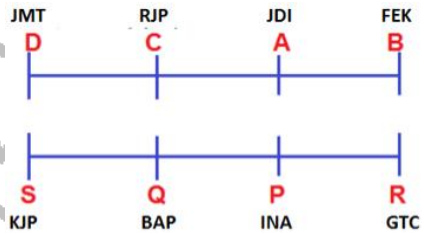
76. (3)
77. (4)
78. (1)
79. (4)
80. (1)

81-85.

R(6) P(5) W(3) T(1) Q(7) U(2) S(4)
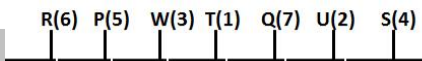
81. (2)
82. (4)
83. (5)
84. (3)
85. (1)

86-90.

Days	Floor
Monday	First Floor
Tuesday	Fourth Floor
Wednesday	Third Floor
Thursday	Holiday
Friday	Second Floor
Saturday	Fifth Floor

86. (4)
87. (5)
88. (1)
89. (2)
90. (2)
91. (1)
92. (4)
93. (2)
94. (2)
95. (2)
96. (1)   7 1 £ 9 $ A + 8 E 3 = 6 1 2 * % O < 5 U δ
97. (3)   F 6,* B %
98. (5)   10TH to the left of 18th from the left = (18-10) = 8th
from the left = W
99. (1)
100. (2)