IBPS Clerk Preliminary Grand Test –ICP-171226
HINTS & SOLUTIONS

ANSWER KEY

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

HINTS & SOLUTIONS

1. (3)　Refer the third paragraph of the passage "In general, the BMI number is a good quantifiable measurement of a person's obesity, however it is a poor predictor in people who are very athletic"

2. (3)　Refer the last few lines of the third paragraph of the passage, "In general, the BMI number is a good quantifiable measurement of a person's obesity, however it is a poor predictor in people who are very athletic, because a person with a higher than average amount of muscle tissue will weigh more than an average person, thus resulting in a BMI that is higher than normal"

3. (5)　All of the given options are correct. Refer the fourth paragraph of the passage.

4. (3)　Refer the first few lines of sixth paragraph, " But, for much of human history mankind struggled with food scarcity, and so obesity has sometimes been viewed as a sign of wealth and prosperity"

5. (4)　Refer the last few lines of last paragraph of the paragraph.

6. (1)　Option (a) cannot be inferred from the passage.

7. (2)　Sloth means reluctance to work or make an effort, laziness. Hence it has same meaning as indolence.

Congruity means the quality of agreeing, being suitable and appropriate.
Eclectic means selecting what seems best of various styles or ideas.
Dour means showing a brooding ill humor.
Onerous means not easily borne, wearing.

8. (4)　Glutton means an excessively greedy eater. Hence it has same meaning as gourmand.
Dispel means to cause to separate and go in different directions.
Disparate means fundamentally different or distinct in quality or kind.
Antithesis means exact opposite.
Construe means make sense of, assign a meaning to.

9. (4)　Prevalence means the fact or condition of being prevalent, commonness. Hence it has opposite meaning as peculiar.
Amenable means disposed or willing to comply.
Bane means something causing misery or death.
Bereft means sorrowful through loss or deprivation.
Cognizant means having or showing knowledge or understanding or realization.

10. (5)　Harbinger means a person or thing that announces or signals the approach of another. Hence it has opposite meaning as antagonist.
Contrite means feeling or expressing pain or sorrow for sins or offenses.
Contentious means showing an inclination to disagree.
Defunct means Inactive

11. (5)　The sentence is grammatically correct.

12. (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.

13. (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.

14. (2)　'what makes/ what has made/ what made' will be used in place of 'what to make'.

15. (2)　Use 'live' in place of 'have been lived' as simple present tense is used for work done for some permanent work of present.

16. (3)　'in' will be used in place of 'by'.

17. (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.

18. (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.

19. (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'.

20. (5)　The sentence is grammatically correct.

RACE

21(4) 'path' is the correct word as the sentence is talking about the difference between the two i.e. knowing the path and walking the path.

22. (3) 'challenges' best suits the purpose.
Venture means a risky or daring journey or undertaking.

23. (2) 'happiness' is the most appropriate word for the blank as it is going similar in meaning with success and joy.

24. (2) 'leads' is the correct word making the sentence meaningful as it clearify the interlink of success, joy and happiness

25. (3) 'eludes' is the most appropriate word.
Rattles means make or cause to make a rapid succession of short, sharp knocking sounds.
Swerves means change or cause to change direction abruptly.

26. (5) No improvement is required here.

27. (2) 'life' is the most appropriate word to be replaced as paragraph is all about the life and its challenges.

28. (3) 'wind' best suits the purpose as the sentence is comparing the 'joy' with feather that free flows in wind, not in orbit or circle.

29. (4) 'internal' best suits the purpose as the sentence tells about the properties of joy.

30. (5) No correction is required here.

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

32. (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) $2y^2 + 11y + 15 = 0$
$2y^2 + 6y + 5y + 15 = 0$
$2y(y + 3) + 5(y + 3) = 0$
$(2y + 5)(y + 3) = 0$
$y = \frac{-5}{2}, -3$
$x \geq y$

33. (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

34. (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

35. (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) $2y^2 - 12y + 18 = 0$
$2y^2 - 6y - 6y + 18 = 0$
$2y(y - 3) - 6(y - 3) = 0$
$(2y - 6)(y - 3) = 0$
$y = 3, 3$
$x > y$

36. (3)
$12 + 15 + 11 \times ? = 49$
$11 \times (?) = 49 - 27$
$? = \frac{22}{11} = 2$

37. (1)
$(0.6)^4 \times \frac{(0.6)^4 \times (0.6)^3}{(0.6)^6} = (0.6)^?$
$(0.6)^{11-6} = (0.6)^?$
$? = 5$

38. (2)
$\frac{38}{100} \times 295 + \frac{62}{100} \times 445 = ?$
$\frac{11210}{100} + \frac{27590}{100} = ?$
$? = \frac{38800}{100} = 388$

39. (4)
$\frac{15}{4} \times \frac{2}{5} \times \frac{9}{2} + \frac{7}{4} = ?$
$? = \frac{27}{4} + \frac{7}{4} = \frac{34}{4}$
$? = 8.5 = 8\frac{1}{2}$

40. (5)
$\frac{44800}{320} \times 3 = \frac{2156}{14} + (?) - \frac{1728}{144}$
$140 \times 3 = 154 - 12 + ?$
$? = 278$

41. (4) Required average
$= \frac{350 + 460 + 280 + 420 + 540}{5}$
$= \frac{2050}{5} = 410$

42. (5) Total number of student studying I.T
$= 370 + 450 + 430 + 325 + 300$
$= 1875$
Required percentage $= \frac{450}{1875} \times 100 = 24\%$

43(3) Required ratio
$= \frac{370 + 290}{525 + 315} = \frac{660}{840}$
$= \frac{11}{14}$

44. (2) Students studying C.E from GITM & IIT = 1075
Students studying EE from GITM & IIT = 860
Required percentage $= \frac{1075 - 860}{860} \times 100$
$= 25\%$

45. (2) Required average
$= \frac{280 + 345 + 430 + 225 + 440}{5}$
$= \frac{1720}{5} = 344$
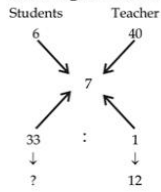
46. (3) C.P. of motor car
= Rs 17,000
M.P. of motor car
$= \text{Rs } 17,000 \times \frac{100}{85} = \text{Rs } 20,000$
After successive Discount C.P.
$= 20,000 \times \frac{95}{100} \times \frac{90}{100}$
=Rs 17,100

47. (1) Use Alligation and mixture:

$$33 \times 12 = 396 \text{ students}$$

Or,

Let, number of student = n

ATQ,

$$\frac{n \times 6 + 12 \times 40}{n + 12} = 7$$

$$6n + 480 = 7n + 84$$

$$n = 480 - 84$$

$$n = 396$$

48. (4) Let no. of balls in bag x and y is $2a$ and $3a$ respectively

⇒ Now 5 balls pare taken out of bag y and put in bag x

$$\because \frac{2a + 5}{3a - 5} = \frac{1}{1}$$

$$\Rightarrow 2a + 5 = 3a - 5$$

$$a = 10$$

∴ No. of balls in each bag is

$$x \Rightarrow 2 \times 10 + 5 = 25$$

$$y \Rightarrow 3 \times 10 - 5 = 25$$

49. (1) Let A's capital = Rs x
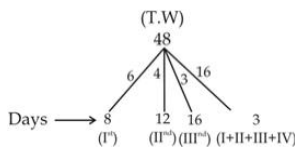
Let B's capital = Rs y

Now Acc. to question

		A	B
Capital	→	x	y
Time (in month)	→	(9+1) = 10	9
Ratio of profit	→	5	6

We know

$$\frac{10 \times x}{9 \times y} = \frac{5}{6} \Rightarrow \frac{x}{y} = \frac{3}{4}$$

Hence the required ratio of capital of A and B is = 3 : 4

50. (3)

⇒ IVth person efficiency

$$= 16 - 6 - 4 - 3 = 3 \text{ units}$$

$$16 \text{ units} \to 1200$$

$$1 \text{ unit} \to 75$$

$$3 \text{ units} \to 225$$

51. (2) Let principal = P,

r = 10%

T = 3 years

ATQ,

$$P\left(1 + \frac{10}{100}\right)^3 = 5324$$

$$P\left(\frac{100 + 10}{100}\right)^3 = 5324$$

$$P\left(\frac{110}{100}\right)^3 = 5324$$

$$P = 4000$$

52. (3) $20\% = \frac{1}{5}$

	Initial	Final
Price	5	6
Consumption	×6 −1	×5
Expenditure	30	30

Required rate = 1 : 6

53. (3) We can infer that train crosses only platform not its length in (25 −15) = 10 seconds

Speed of the train

$$= \frac{100 \text{ metres}}{10 \text{ sec}} = 10 \text{ m/s}$$

∵ Train crosses the pole in 15 seconds

We know that when train crosses a pole/tree/man in these cases it covers the distance equal to its length. Therefore,

Length of train = 15 × 10 = 150 metres.

54. (4) Let side of square be x

Area of square = x^2

Side of new formed square = x + 50% of x = 1.5x
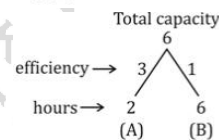
Area of new formed square = $(1.5x)^2$

$$= 2.25x^2$$

Ratio of the area

(new square) : area of (original square)

$$= 2.25x^2 : x^2$$

$$= 9 : 4$$

55. (3)

Pipe A will fill 3 units till 11 am.

Remaining capacity = 6 − 3 = 3 units

Now both pipes will fill the tank in

$$\frac{\text{remaining capacity}}{\text{Efficiency}} = \frac{3}{(3 + 1)} = \frac{3}{4} \text{ hours}$$

So, $\left(11 + \frac{3}{4}\right)$ am, tank will be filled

= 11 : 45 A.M.

56. (5) $? \simeq 0.5 \times 10 \times 53$

$? \simeq 5 \times 53 \simeq 265$

57. (3) $\frac{?}{100} \times 450 - 12 \times 16 \approx 117 - \frac{24}{100} \times 650$

$? \times 4.5 \approx 153$

$? \approx 34$

58. (2) $? \simeq (11)^2 + (4)^3 \times 4$

$? \simeq 121 + 256 = 377$

59. (1) $? \simeq \frac{116}{100} \times 460 - \frac{162}{100} \times 160$

$? = 533.6 - 259.2 = 274.4 \simeq 274.$

60. (2) $100 + \frac{3}{5} \times 1890 \approx ? + 1000$

$? \simeq 100 + 1134 - 1000 = 234$

61. (2) $\frac{87}{100} \times 4000 - 725 \approx \frac{25}{100} \times ?$

$? \approx (3480 - 725) \times \frac{100}{25}$

$? \simeq \frac{2755}{25} \times 100 = 110.2 \times 100 = 11,020$

62. (1) $125 + 100 + 40 \simeq \frac{1024}{32} \times 4 + ?$

$? = 265 - 128$

$= 137$

63. (2) $60 \times 5 \times 15 \simeq ? + 2300 - 1000$
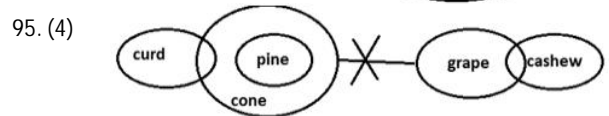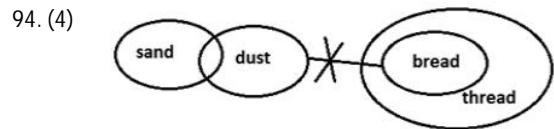
$? = 4500 - 2300 + 1000$

$? = 3200$

64. (5) $? \simeq \dfrac{2}{5} \times 525 + \dfrac{3}{7} \times 168 - \dfrac{4}{5} \times 225$

$? = 2 \times 105 + 3 \times 24 - 4 \times 45$

$? = 210 + 72 - 180 = 102$

65. (1) $\sqrt{?} + \dfrac{36}{100} \times 350 - 16 \times 23 \simeq -196$

$\sqrt{?} + 126 - 368 = -196$

$\sqrt{?} = 46$

$? = 2116$

66-70.

Floor	Person	City
7	W	Kernal
6	V	Satna
5	Z	Rewa
4	U	Kurukshetra
3	X	Chandigarh
2	Y	Allahabad
1	T	Bokaro

66. (4)   67. (4)
68. (3)   69. (4)   70. (3)

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. (1)   7 1 £ 9 \$ A + 8 E 3 = 6 1 2 * % O < 5 U δ
77. (3)   F 6 ,* B %
78. (5)   10TH to the left of 18th from the left = (18-10) = 8th
from the left = W
79. (1)
80. (2)
81-85.   South facing   U Q T Z S
North facing   W V X R Y

81. (3)   82. (4)
83. (5)   84. (2)   85. (1)
86. (4)   87. (1)   88. (2)
89. (1)   B ≤ A = N > K ≥ S
90. (3)   B ≤ A ≥ R < P so both are false.
91. (2)

92. (4)

93. (1)

94. (4)

95. (4)

96-100.

Each	Ka
You	Ja
Us/of	Lu/hu
Earn	La
Salary	ju
The	Fu
Maximum	fa

96. (2)   97. (5)
98. (5)   99. (2)   100. (3)