BANK PO PHASE-I MOCK TEST-30 (SOLUTION)

REASONING

Solutions (1-5) :

	Salary	Hospital	Age
F	12000	U	27
M	18000	C	26
K	15000	P/S	30
N	8000	S/P	24
Y	20000	O	29

1. (1)   2. (5)   3. (4)
4. (3)   5. (4)

Solutions (6-9) :

6. (2)   7. (2)   8. (2)
9. (3)

Solutions (10-14) :

10. (1)   11. (3)   12. (4)
13. (2)   14. (3)

Solutions (15-19) :

15. (3)   16. (5)   17. (2)
18. (1)   19. (3)

Solutions (20-23) :

20. (3) Q $\geq$ R = K
    So, Q $\geq$ K
21. (1) F > R and R $\geq$ G
    So, F > G and also given F $\geq$ V.
    Can't say about V and G.
22. (4) Q $\geq$ L < M = R $\leq$ K
    Q $\geq$ L < M $\leq$ K
    Q $\geq$ L < K   can't say about Q and K.
    Q $\geq$ L < M   can't say about Q and M
23. (1) J $\leq$ M = N, N< T
    J $\leq$ N < T
    So, J < T

Solutions (24-29) :

24. (3)   25. (2)   26. (3)
27. (3)   28. (1)   29. (3)

Solutions (30-32) :

30. (2) I is not a practical course of action. II follows, as enquiry is the norm after every failures/incidents.
31. (2)
32. (5)

Solutions (33-35) :

33. (5) There are different types of brushes available in market and the one who interests in market and the one who interests in painting, mostly know about the brushes, so both assumption follows.
34. (1) Any type of information board is a medium to batterly know the situation, place or conditions so assumption I follows.
35. (2) Other useful equipment can be made with mobile waste.

MATHS LANGUAGE

36. (5) The series is :
    5 × 10 – 9 = 41
    41 × 8 – 7 = 321
    321 × 6 – 5 = 1921
    1921 × 4 – 3 = 7681
    7680 × 2 – 1 = 15361
    15361 × 0 – (–1) = $\boxed{1}$

37. (3) The series is :
    1 + 1 + 1 = 3
    3 + 2 + 2 = 7
    7 + 3 + 3 = 13
    13 + 4 + 5 = 22
    22 + 5 + 7 = 34
    34 + 6 + 11 = 51
    51 + 7 + 13 = 71
    71 + 8 + 17 = 96
    96 + 9 + 19 = 124
    124 + 10 + 23 = $\boxed{157}$
    The first parts is numbers (1, 2, 3, 4...) etc added to and second is prime numbers (1, 2, 3, 5, 7, 11, 13...).

38. (5) The given series is
    $+(1)^2, +(3)^2, +(5)^2, +(7)^2, +(9)^2, +(11)^2$
    Correct answer = 171.

39. (5) The series is:
    13 × 2 + 7 = 33
    33 × 3 + 11 = 110
    110 × 4 + 13 = 453
    453 × 5 + 17 = 2282
    2282 × 6 + 19 = 13711
    13711 × 7 + 23 = $\boxed{96000}$

40. (3) The series is:
    0.8 × 1 + 3 = 3.8
    3.8 × 2 + 5 = 12.6
    12.6 × 3 + 7 = 44.8
    44.8 × 4 + 9 = 188.2
    188.2 × 5 + 11 = $\boxed{952}$

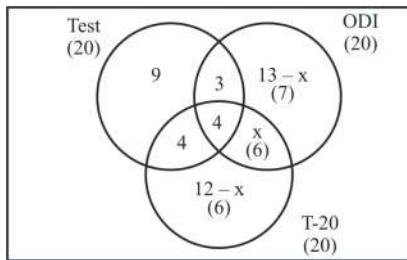**Solutions (41–45) :**

41. (5)
    I. $20x^2 – 21x + 12 = 0$
          $5x(4x-3) – 4(4x – 3) = 0$
          $(4x –3)(5x – 4) = 0$
          $x = \dfrac{3}{4}, \dfrac{4}{5}$
    II. $20y^2 – y – 12 = 0$
          $(5y – 4)(4y + 3) = 0$
          $y = \dfrac{4}{5}, – \dfrac{3}{4}$

42. (1) I. $3x^2 - 47x + 184 = 0$

$(x - 8)(3x - 23) = 0$

$x = 8, \dfrac{23}{3}$

II. $2y^2 - 23y + 66 = 0$

$(y - 6)(2y - 11) = 0$

$y = 6, \dfrac{11}{2}$

43. (5) I. $30x - 49\sqrt{x} + 20 = 0$

$(5\sqrt{x} - 4)(6\sqrt{x} - 5) = 0$

$x = \dfrac{16}{25}, x = \dfrac{25}{36}$

II. $42y - 5\sqrt{y} - 25 = 0$

$(6\sqrt{y} - 5)(7\sqrt{y} + 5) = 0$

$y = \dfrac{25}{36}, y = \dfrac{25}{49}$

44. (5) no relation can be established

I. $x^2 - 10\sqrt{3} + 63 = 0$

$(x - 3\sqrt{3})(x - 7\sqrt{3}) = 0$

$x = 3\sqrt{3}, 7\sqrt{3}$

II. $y^2 - \sqrt{2}y - 24 = 0$

$(y - 4\sqrt{2})(y + 3\sqrt{2}) = 0$

$y = 4\sqrt{2}, -3\sqrt{2}$

45. (2)

I. $x^2 - 14x - 48 = 0$

$(x - 6)(x - 8) = 0$

$x = 6, 8$

II. $y^2 - y - 30 = 0$

$(y + 5)(y - 6) = 0$

$y = -5, 6$

46. (3) The ratio among the three number is

$5 : 3$

$\Rightarrow \dfrac{7 : 3}{35 : 21 : 9}$

Second number $= \dfrac{65}{35 + 21 + 9} \times 21$

$= 1 \times 21 = 21$

47. (4) Original amount =

$\dfrac{5760 \times 100 \times 100 \times 100}{(100 - 25)(100 - 50)(100 - 75)} = 61440$

48. (2) Let speed of B = x and A = $2x$

Length = l_B and l_A

Trains are running in the same direction. So relative speed = $2x - x = x$

$\therefore \dfrac{l_A + l_B}{x} = 50$ ...(i)

$\dfrac{l_B}{x} = 30$ ...(ii)

Equation (i) ÷ (ii),

$\dfrac{l_A + l_B}{l_B} = \dfrac{5}{3}$

$\therefore l_A : l_B = 2 : 3$

49. (4) Let the distance be x km.

$\therefore$ Average speed $= \dfrac{2x}{\left(\dfrac{x}{10+2}\right) + \left(\dfrac{x}{10-2}\right)}$

$= \dfrac{2x}{\dfrac{x}{12} + \dfrac{x}{8}} = \dfrac{2x}{\dfrac{2x + 3x}{24}}$

$= 2x \times \dfrac{24}{5x} = \dfrac{48}{5} = 9.6$ kmph

50. (4) Required answer $= \dfrac{{}^9P_3 \times 2! \times 6!}{10!} = \dfrac{1}{5}$

51. (4) A + B can do $\dfrac{1}{10}$ of work in 1 day.

A can do $\dfrac{1}{15}$ of work in 1 day.

$\therefore$ B can do $\left(\dfrac{1}{10} - \dfrac{1}{15}\right) = \dfrac{1}{30}$ of work in 1 day.

So B alone can do the work in 30 days.

52. (4) Required answer $= \dfrac{5}{18}(x + y) \times T$

$= \dfrac{5}{18}(30 + 24) \times 5$

$= \dfrac{5 \times 54 \times 5}{18} = 75$ m

53. (1) Required answer $= \left(\dfrac{32 + 20}{100 - 20}\right) \times 100$

$= \dfrac{52 \times 100}{80} = 65\%$

54. (3)

Solutions (56–60) :

56. (3)   57. (1)   58. (3)
59. (2)   60. (3)

Solutions (61-65) :

61. (4) $\dfrac{E}{I} = \dfrac{6}{10} \Rightarrow \dfrac{36}{I} = \dfrac{6}{10}$

I = 60 lakhs.

62. (2) $\dfrac{E_A}{I_A} = 0.8 \Rightarrow \dfrac{E_A}{I_A} = \dfrac{E_A}{60} = \dfrac{8}{10}$

$\therefore$ $E_A = 0.8 \times 60 = 48$ lakhs

$\therefore$ $P_A = 60 - 48 = 12$ lakhs

$\dfrac{E_B}{I_B} = 0.75 \Rightarrow \dfrac{60}{I_B} = \dfrac{75}{100}$

$\therefore$ $I_B = 80$ lakhs

$\therefore$ $P_B = 80 - 60 = 20$ lakhs

$\therefore$ Difference = 20 – 12 = 8 lakhs

63. (4) In 2001, $\dfrac{E_A}{I_A} = 0.4$

$\therefore$ $E_A = 0.4 \times 50 = 20$ lakhs

$\therefore$ Profit = 50 – 20 = 30 lakhs

In 2005, $\dfrac{E_B}{I_B} = 0.8$

$\therefore$ $E_B = 0.8 \times 80 = 64$ lakhs

$\therefore$ Profit = 80 – 64 = 16 lakhs

Net profit of A = 30 lakhs and B = 16 lakhs

$\therefore$ % = $\dfrac{30 - 16}{16} \times 100 = \dfrac{14}{16} \times 100 = 57.5\%$

64. (4) Ratio of expenditure to income of B in 2004 = 0.7

Ratio of expenditure to income of A in 2005 = 0.5

$\therefore$ % = $\dfrac{0.7 - 0.5}{0.5} \times 100 = 40\%$

65. (5) Data is not sufficient to find the answer.

Solutions (96-100) :

66. (2) $\dfrac{24 \times 8000}{100}$ = Rs 1920

67. (5) Angle = $\dfrac{16}{100} \times 360 = \dfrac{288}{5} = 57\dfrac{3°}{5}$

68. (3) $\dfrac{14}{100} \times 8000$ = Rs 1120

69. (3) Expenditure on education = 18% of 8000

= $8000 \times \dfrac{18}{100}$ = Rs 1440

Medical expenditure = 16% of 8000

= $8000 \times \dfrac{16}{100}$ = Rs 1280

Difference = 1440 – 1280 = Rs 160

70. (4) $12000 \times \dfrac{16}{100}$ = Rs 1920

ENGLISH LANGUAGE

71. (3)   72. (4)   73. (1)
74. (2)   75. (3)   76. (5)
77. (3)   78. (4)   79. (4)
80. (2)   81. (1)   82. (4)
83. (4)   84. (2)   85. (1)
86. (4)   87. (1)   88. (5)
89. (3)   90. (2)   91. (2)
92. (5)   93. (1)   94. (4)
95. (1)   96. (4)   97. (2)
98. (5)   99. (3)   100. (2)

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Dictum	A statement or well-known remark that expresses an important idea or rule	कहावत, कथन
Legitimate	Allowed and acceptable according to the law	वैध, विधि सम्मत
Primitive	Belonging to an early stage in the development of humans or animals	प्राचीन, प्रारम्भिक
Abhorrent	Causing hatred, especially for moral reasons	घृणित
Ingenuity	The ability to invent things or solve problems in clever new ways	चतुरता
Immutable	That cannot be changed	अपरिवर्तनशील, अचल
Stalled	Deliberately delay an event or action	विलंब लगाना, प्रगति को रोकना
Peril	Serious danger	खतरा
Sovereignty	The state of being a country with freedom to govern itself	प्रभुसत्ता
Monarchy	A system of government by a king or a queen	साम्राज्य
Emanate	To produce or show something	उत्पन्न होना
Harmony	A state of peaceful existence and agreement	सामंजस्य, तालमेल
Irrational	Not based on, or not using, clear logical thought	तर्कहीन
Farce	A funny play or movie about ridiculous situations and events	प्रहसन, तमाशा
Detrimental	Harmful	हानिकारक
Embellish	To make a story more interesting by adding details that are not always true	अलंकृत करना
Beset	To affect somebody/something in an unpleasant or harmful way	सताना
Abstain	To stay away from something	बचना, परहेज रखना
Ascribe	Attribute or credit to	श्रेय देना
Persecutor	A person who treats another person or group of people in a cruel and unfair way	अत्याचारी, उत्पीड़क
Stabilizer	A device for making something stable	स्थिरक
Conspirator	A person who is involved in a secret plan to do something harmful or illegal	षड्यंत्रकारी
Derogatory	Showing a critical attitude towards somebody	अनादरपूर्ण

BANK PO PHASE -I MOCK TEST - 30 (ANSWER KEY)

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

Note:- If you face any problem regarding result or marks scored, please contact 9313111777

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003