Grand Test - IPP 181036



IBPS PO Preliminary Grand Test -IPP - 181036 **HINTS & SOLUTIONS**

25. (3) 26. (4)

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

HINTS & SOLUTIONS

MINK

- DAGCFEB 1 - 5.
- 1.(2)
- 2.(1)
- 3. (4)
- 4. (3)
- 5. (4)
- 6.(1) The correct spelling is adorned.
- 7. (5)
- Replace 'seen' with 'see'. 8. (1)
- 9. (3) The correct spelling is awkwardness.
- 10. (1) The correct spelling is fraternity.
- 11. (5)
- 12. (4) 13. (4)
- 14. (2)
- 15. (2)
- 16. (3)
- 17. (1) 18. (3)
- 19. (4)
- 20. (5)
- 21. (1)
- 22. (3)
- 23. (5)
- 24. (2)

- 27. (2) 28. (1) 29. (5) 30. (4)
- $x = \sqrt{1369} = \pm 37$ (I) 31. (4) $y = \sqrt[3]{29791} = 31$ (II)
 - ∴ x ≤ y
- 32. (3) equn. (I) \times 4 + equn (II) \times 3 32x - 12y = 124
 - 15x + 12y = 252 47x = 376
 - \therefore x = 8 and from this y = 11
 - ∴ x < y
- 33. (2) $20x^2 - 35x - 44x + 77 = 0$
 - 5x(4x-7)-11(4x-7)=0(4x-7)(5x-11)=0
 - 7 11
 - 4 ' 5
 - $4y^2 + 16y 7y 28 = 0$ 4y(y+4) - 7(y+4) = 0
 - (4y-7)(y+4)=0
 - $\therefore x \ge y$
- $6x^2 + 8x + 21x + 28 = 0$
 - 2x(3x+4)+7(3x+4)=0
 - (3x+4)(2x+7)=0

$$x = -\frac{4}{3}, -\frac{7}{2}$$

- $6y^2 + 3y + 8y + 4 = 0$
- 3y(2y + 1) + 4(2y + 1) = 0
- (3y + 4)(2y + 1) = 0

$$\therefore y = -\frac{4}{3}, -\frac{1}{2} \quad \therefore x \le y$$

 $x^2 + 9x - 6x - 54 = 0$ 35. (5)

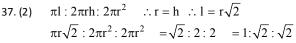
$$x(x+9)-6(x+9)=0$$

- x = 6, -9
- $y^2 + 11y 7y 77 = 0$
- y(y+11)-7(y+11)=0
- (y-7)(y+11)=0
- ∴ y = 7, –11

i.e. No relation between x & y

36. (2) $\frac{4}{3}\pi r^3 : a^3$, $\therefore r = \frac{a}{2}$, $\frac{4}{3}\pi \left(\frac{a}{2}\right)^3 = a^3$, $4\pi r^3 : 24a^3, \quad \pi = 6$

Grand Test - IPP 181036



38. (2)
$$r_1^2 h_1 : r_2^2 h_2$$
, $9 \times 6 : 25 \times 4$
54 : 100, 27 : 50

So leave days
$$=\frac{180}{12} = 15 \,\text{days} : : : :$$

$$\therefore$$
 Working days = $40 - 15 = 25$ days

40. (4)
$$\frac{(10x+y)-(10y+x)}{10} = 3.6, \quad 9x-9y = 36$$

$$x-y=4$$

41. (2) Required average number of instruments manufactured

by Company C =
$$\left(\frac{48 + 52 + 50 + 45 + 55 + 47}{6}\right)$$
 lakh = $\frac{297}{6}$ lakh = 4950000

42. (3) Instruments manufactured by , all the companies together in 2004

$$\therefore \text{ Required percentage} = \frac{56}{281} \times 100 = 19.92 = 20$$

43. (1) Total number of instruments manufactured by Company A over the years

Total number of instruments manufactured by Company F over the years

Required percentage =
$$\frac{280}{288} \times 100 = 97.22 = 97$$

44. (4) Total number of instruments manufactures by Company B over the years

Required percentage =
$$\frac{37}{208} \times 100 = 17.79 = 18$$

45. (4) Avg. =
$$\frac{25+19+27+22+30+21}{6}$$

= $\frac{144}{6}$ = 24 thousand

46. (3) Avg.
$$_{2012} = \frac{16 + 23 + 27 + 19 + 17 + 30}{6} = \frac{132}{6} = 22$$
 thousand

:. Re quired % =
$$\frac{22}{25} \times 100 = 88\%$$

47. (2) $Total_{2008} = 119 \text{ thousand}, C_{total} = 140 \text{ thousand}$

$$\therefore$$
 Re quired % = $\frac{119}{140} \times 100 = 85\%$

48. (4) Avg_{·2013} = $\frac{141}{6}$ = 23.5 thousand

$$Avg_{.2010} = \frac{117}{6} = 19.5$$
 thousand

Difference = 4 thousand



49. (3) $D_{total} = 119 \text{ thousand}$ $T_{(2009+2011)} = 119 + 129 = 248 \text{ thousand}$

:. Re quired % =
$$\frac{119 \times 100}{248}$$
 = 47.98% $\approx 48\%$

50. (1)
$$?=(49)^3 \div (7)^2$$

$$\frac{49 \times 49 \times 49}{7 \times 7} = 2401$$

51. (5) ?= 28.217- 14.241 + 6.873- 2.434 = 35.090- 16.675= 18.415

52. (3)
$$\times 1 - 5^2, \times 1 - 4^2, \times 1 - 3^2, \times 1 - 2^2, \times 1 - 1^2 - No.$$
 should be 33.

53. (1)
$$(\times 1+11), (\times 3+11), (\times 5+11), (\times 7+11) - \text{No.}$$
 should be 321.

54. (3) $\times 3 + 1, \times 3 + 3, \times 3 + 5, \times 3 + 7 - \text{No.}$ should be 1238.

55. (1)
$$+4^2$$
, $+5^2$, $+6^2$, $+7^2$, $+8^2$, $+-No$, should be 865

56. (4) 13³,11³,7³,13³,8³,5³,3³,

512 is a cube of even number, rest of the cube of prime numbers.

57. (2)
$$\frac{t}{12} + \frac{t}{15} + \frac{t}{20} = 1$$
, $\frac{5t + 4t + 3t}{60} = 1$, $12t = 60$

$$\therefore t = \frac{60}{12} = 5 \text{ days}$$

58. (3)
$$\frac{2}{12} + \frac{t}{15} + \frac{t-2}{20} = 1$$
, $\frac{10+4t+3t-6}{60} = 1$

$$7t = 56$$
, $t = \frac{56}{7} = 8 \text{ days}$

59. (3)
$$\frac{1}{15} + \frac{1}{8} + \frac{1}{12}$$
, $\frac{8t + 15 + 10}{120} = \frac{33}{120}$

$$\frac{120}{33} = 3 \times 3 = 9 \text{ rest work} = 120 - 99 = 21$$

Now B works, 9 + 1 = 10 days, Remaining work = 21 - 15 = 6

$$10\frac{6}{10} = 10\frac{3}{5}$$
 days

60. (2)
$$\frac{1}{15} + \frac{1}{8} + \frac{1}{12}$$
, $\frac{8t + 15 + 10}{120} = \frac{33}{120} = \frac{120}{33}$

A + B + C complete work in 3 days $33 \times 3 = 99$

 \therefore Remaining = 120 - 99 = 21

Now A work = 9 + 1 days 21 - 8 = 13 work left

Now B complete =
$$10\frac{13}{15} = 10\frac{13}{15}$$
 days

61. (2)
$$\frac{t-3}{12} + \frac{t}{20} = 1$$
, $\frac{5t-15+3t}{60} = 1$, $8t = 60+15$

8t = 75,
$$t = \frac{75}{8} = 9\frac{3}{8}$$
 days

62. (2) ?= 8537.986- 2416.005- 221.996 = 8537.986- 2638.001

= 5899.985 = 5900

63.(3) ?= 1019.999÷60.007

Grand Test - IPP 181036



$=\frac{1019.999}{10000000000000000000000000000000000$	= 16.998 =17
60.007	10.550 17

64. (4)	? =111111:1111:11	

$$=1111111 \times \frac{1}{1111 \times 11} = 9.09 = 9$$

65. (5)
$$? = \sqrt[3]{5000} = 17.1 = 17$$

66. (2)

67. (5)

68. (2)

69. (2) 70. (1)

71. (4) It is clear that the government is failed to control and prevent the economic slowdown and corruption.

72. (1) Building up a strong mechanism that prevent corruption is an effective step.

73. (2) It is obvious that corruption has badly effected the whole system and it is the soul assumption behind the information.

74. (1) The movement of Sunil are shown in fig. from A to D. Clearly Δ BCD is right angled at –

$$BC^2 = CD^2 + BD^2$$

$$BD = \sqrt{BC^2 - CD^2}$$

$$=\sqrt{13^2-12^2} = \sqrt{169-144} = \sqrt{25} = 5 \text{ KM}.$$

Therefore, Sunil is 5 km. east of central park.

75. (5) N is either brother or sister of R

76. (1)

77. (3)

78. (1)

79. (5) 80. (3)

81. (3) It is clearly inferred that the parking in the Ghaziabad city is a chaos and unorganized.

82. (4) Due to unorganized parking and absence of proper parking system citizens are forced to parks on the road which cause traffic hindrance and jams.

83. (5) To overcome from the parking problem the authorities must create underground and multi – level parking in congested areas of the city.

84. (3) The present scenario of transport is not well so airport should be more passenger friendly.

85. (4) Providing low – floor buses for easy go is the valid course of action for authorities.

86. (2) The high floor buses are mostly causing trouble or annoyance for passengers specially the eaderly passengers.

87. (5) $300 + 28 - 5 \times 32 + 14$

After changing the sign

$$300 + 14 - \frac{28 \times 5}{32}$$

314-4.375=309.625

88 – 92.

Name of	works in	Rank according to
person		salary
F	accounts	1 st
Н	administration	2 nd
E	accounts	3 rd
K	IT	4 th
I	accounts	5 th

G	IT	6 th
J	IT	7 th
D	Administration	8 th

88. (2)

89. (1)

90. (3) 91. (4)

92. (2)

93. (5)

94. (4) It is clear that until schools becomes an options for the parents for their children schooling there is no end to nursery admission chaos.

95. (2) To prevent the nursery admission chaos, the quality education should be offered in government schools. Which can easily be affordable by parents.

96. (4)

97. (1)

98. (5)

99. (4)

100. (1