

IBPS RRB PO Preliminary Grand Test –IRPP-170809 HINTS & SOLUTIONS

11-15.

21-25.

	ANSW	ER KEY		
1. (4)	21. (5)	41. (4)	61. (4)	
2. (3)	22. (4)	42. (3)	62. (2)	
3. (2)	23. (4)	43. (5)	63. (3)	
4. (1)	24. (2)	44. (4)	64. (5)	
5. (4)	25. (3)	45. (5)	65. (5)	
6. (5)	26. (3)	46. (5)	66. (4)	
7. (3)	27. (2)	47. (2)	67. (2)	
8. (2)	28. (4)	48. (4)	68. (2)	ď
9. (2)	29. (3)	49. (1)	69. (3)	
10. (2)	30. (2)	50. (3)	70. (1)	
11. (2)	31. (3)	51. (2)	71. (1)	7
12. (1)	32. (1)	52. (1)	72. (5)	
13. (3)	33. (3)	53. (2)	73. (4)	
14. (3)	34. (1)	54. (3)	74. (5)	
15. (4)	35. (3)	55. (3)	75. (3)	1
16. (4)	36. (4)	56. (2)	76. (2)	ľ
17. (1)	37. (1)	57. (2)	77. (2)	Já.
18. (2)	38. (1)	58. (3)	78. (1)	
19. (5)	39. (4)	59. (4)	79. (4)	I
20. (5)	40. (4)	60. (5)	80. (5)	
	2. (3) 3. (2) 4. (1) 5. (4) 6. (5) 7. (3) 8. (2) 9. (2) 10. (2) 11. (2) 12. (1) 13. (3) 14. (3) 15. (4) 16. (4) 17. (1) 18. (2) 19. (5)	1. (4) 21. (5) 2. (3) 22. (4) 3. (2) 23. (4) 4. (1) 24. (2) 5. (4) 25. (3) 6. (5) 26. (3) 7. (3) 27. (2) 8. (2) 28. (4) 9. (2) 29. (3) 10. (2) 30. (2) 11. (2) 31. (3) 12. (1) 32. (1) 13. (3) 33. (3) 14. (3) 34. (1) 15. (4) 35. (3) 16. (4) 36. (4) 17. (1) 37. (1) 18. (2) 39. (4)	2. (3) 22. (4) 42. (3) 3. (2) 23. (4) 43. (5) 4. (1) 24. (2) 44. (4) 5. (4) 25. (3) 45. (5) 6. (5) 26. (3) 46. (5) 7. (3) 27. (2) 47. (2) 8. (2) 28. (4) 48. (4) 9. (2) 29. (3) 49. (1) 10. (2) 30. (2) 50. (3) 11. (2) 31. (3) 51. (2) 12. (1) 32. (1) 52. (1) 13. (3) 33. (3) 53. (2) 14. (3) 34. (1) 54. (3) 15. (4) 35. (3) 55. (3) 16. (4) 36. (4) 56. (2) 17. (1) 37. (1) 57. (2) 18. (2) 38. (1) 58. (3) 19. (5) 39. (4) 59. (4)	1. (4) 21. (5) 41. (4) 61. (4) 2. (3) 22. (4) 42. (3) 62. (2) 3. (2) 23. (4) 43. (5) 63. (3) 4. (1) 24. (2) 44. (4) 64. (5) 5. (4) 25. (3) 45. (5) 65. (5) 6. (5) 26. (3) 46. (5) 66. (4) 7. (3) 27. (2) 47. (2) 67. (2) 8. (2) 28. (4) 48. (4) 68. (2) 9. (2) 29. (3) 49. (1) 69. (3) 10. (2) 30. (2) 50. (3) 70. (1) 11. (2) 31. (3) 51. (2) 71. (1) 12. (1) 32. (1) 52. (1) 72. (5) 13. (3) 33. (3) 53. (2) 73. (4) 14. (3) 34. (1) 54. (3) 74. (5) 15. (4) 35. (3) 55. (3) 75. (3) 16. (4) 36. (4) 56. (2) 76. (2) 17. (1) 37. (1) 57. (2) 77. (2) 18. (2) 38. (1) 58. (3) 78. (1) 19. (5) 39.

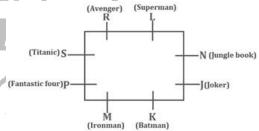
10. (2) By using option (b) in the statement, we can see that 'A < C' and 'T \neq U' are definitely true.

 $F \xrightarrow{G} B$

11. (2) 12. (1) 13. (3) 14. (3) 15. (4)

Members	City	Language	Transportation
Vairavan	Bangalore	Kannada	Train
Vishal	Ahmedabad	Punjabi	Flight
Vinay	Kolkata	Tamil	Ship
Vivan	Hyderabad	Telgu	Truck
Vishwas	Delhi	Bangla	Bus/Bike
Vineet	Mumbai	Hindi	Car
Vivek	Chennai	Marathi	Bus/Bike

16. (4) 18. (2) 19. (5)



iron

21. (5) 22. (4) 23. (4) 24. (2)

25. (3)
26. (3)
pillow light soft mat cars

27. (2)
wire cable fiber copper

28. (4) bright dot spot dark light

HINTS & SOLUTIONS

		7	
1-5.	Person	Car	Comp
	A	Nano	Tata Do
	В	Swift	Ide
		A 1.	3.6003

A	Nano	Tata Docomo
В	Swift	Idea
С	Alto	MTNL
D	BMW	Airtel
E	WagonR	Reliance
F	Audi	Vodafone
G	Fiat	Aircel

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

5. (4)
6. (5) In given statement, by using option (1) we can see that all conclusions are followed and also by using option (3) in the statement again all conclusions are followed. So our

conclusions are followed and also by using option (3) in the statement again all conclusions are followed. So our answer is option (5). Using (1) - P < Q; $D \le N > W$; D > W; Z = W

Using (1) – P < Q; $D \le N > W$; D > W; Z = WUsing (3) – P = Q; $D \le N > W$; D > W; Z = W

Using (5) - P = Q; $D \le N > W$; D > W; Z = WIn both cases all conclusions are followed)

7. (3) By using option (3) in the statement, we can see that all conclusions are followed.

$$K=D< C;\, T>Q;\, K\leq S\leq Q$$

8. (2) By using option (2) in the statement, we can see that all conclusions are followed.

9. (2) By using option (2) in the statement, we can see that all conclusions are followed.

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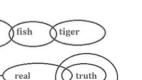
mirror reflecto

parrot

bird

29. (3)

30. (2)



31-35. The machine rearranges one number and one word in each step. It picks even numbers and odd numbers alternately, starting with even numbers, and arranges even numbers in ascending order and odd numbers in descending order from left to right, while words are arranged in reverse alphabetical order from right to left.

crows

Input: vote 13 inn 54 16 air know 49 wonder 24 quick 39 60 lucky

Step I. 16 vote 13 inn 54 air know 49 24 quick 39 60 lucky wonder

Step II. 16 49 13 inn 54 air know 24 quick 39 60 lucky vote wonder

Step III. 16 49 24 13 inn 54 air know 39 60 lucky quick vote wonder

Step IV. 16 49 24 39 13 inn 54 air know 60 lucky quick vote wonder

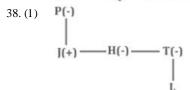
vote wonder **Step V.** 16 49 24 39 54 13 inn air 60 know lucky quick vote wonder

Step VI. 16 49 24 39 54 13 air 60 inn know lucky quick vote wonder

Step VII. 16 49 24 39 54 13 60 air inn know lucky quick vote wonder

37. (1)

P 50m 50m 2 40m R 50m Q 40m R



41. (4) The pattern is $\times 2-2$, $\times 4-8$, $\times 6-18$, $\times 8-32$, $\times 10-50$,...... $222 \times 8-32=1744$, not 1742

42. (3) The pattern is $\times 7 + 7^2, \times 6 + 6^2, \times 5 + 5^2, \times 4 + 4^2, \dots, 91 \times 6 + 6^2 = 582, \text{ not } 584$

43. (5) The pattern is -15^3 , -11^3 , -9^31418-7³=1075, not 1077

44. (4) The pattern is $1^1, 2^2, 3^3, 4^4, \dots, 3^3 = 27, \text{not } 25$

45. (5) The pattern is $\div 2, \div 2, \div 2, \div 2, \dots$ 526.5 $\div 2 = 263.25$, not 262.25

46. (5) Required probability $= ({}^{6}C_{3} + {}^{4}C_{3}) \div ({}^{12}C_{3}) = \frac{6}{6}$

47. (2) Let the principal = P $P(1 + \frac{8}{100})^{2} - P = 1414.4, P = 8500$

Total amount = 8500 + 1414.4 = 9914.4

48. (4) Let side of the rectangle = a and 2a, side of a square = b 2(a+2a)=4b, $a=\frac{2}{3}b$

Area of rectangle= $a \times 2a = 2a^2$ or $\left[\frac{8}{9}\right]b^2$

Area of square=b²

Ratio = 8:9

49. (1) Old price of 3 applies = Rs. 1.25

New price of 3 apples= Rs 1

Percent decrease in price = $\frac{(1.25-1)}{1.25} \times 100 = 20\%$

Let the distance is x, then $\frac{x}{5+3} + \frac{x}{5-3} = 6$

From this equation x=9.6 km

51.(2) Required population

50.(3)

$$= 1000000 \times \frac{1006}{1000} \times \frac{1005}{1000} = 101103.$$

52. (1) Required ratio =
$$\frac{17 \times 101.8 \times 101.6}{21 \times 102.8 \times 103.1} = 0.79$$

53. (2)
$$418600 \times \frac{1000}{1020} \times \frac{1000}{1026} \approx 400 \text{ thousand}$$

54. (3) Average % growth of Gorakhpur = 12.7/5% Average % growth of Chandigarh = 21.9/5%, required percentage=12.7/21.9×100=58%

55. (3)
$$\frac{204.8 \times \frac{100}{102.4}}{400} = 1:2$$

56. (2) C.P.=150+50=200
S.P.=
$$\frac{110}{100} \times 200 = 220$$

57. (2) S.P. of
$$x = 200+20+5=225$$

C.P. of $w = 90+10=100$
Req. $\% = \frac{225}{100} \times 100 = 225\%$

58. (3) Loss on y=
$$400 - 400 \times \frac{100}{75} = \frac{400}{3}$$

Loss on w = 10
Ratio= $\frac{400}{3}$: 10=40:3

59. (4) S.P. of
$$z = 440 \times \frac{106}{100} = 466.4$$

S.P. of $x = 225$
Difference=466.4-225=241.4

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- 60. (5) S.P. of v = 95% of 200 = 190S.P. of z = 466.4 $Req.\% = \frac{466.4-190}{100} \times 100 = 59.26\%$
- 61. (4) Ratio of their efficiency = 5:4:2One day work of 2 men = 10 units One day work of 3 women 12 units One day work of 4 children 8 units Let time taken is D $=\frac{(10+12+8)\times 10}{}=\frac{[(6\times 5)+(4\times 4)+(7\times 2)]\times D}{}$ D = 8 days
- 62.(2) 13 days;

64. (5)

 \therefore (A + B) will complete the work in = $\frac{Total\ work}{CC}$ $=\frac{13\times23}{}$ $=\frac{10+13}{10+3}$ = 13 days

- Required sum = $\frac{19050}{127} \times 100 = 15 \times 1000 = \text{Rs.}15000.$ 63.(3)
- Milk = 63 litre Water = 27 litres $\frac{63 - \frac{63}{90} \times 18}{27 - \frac{27}{90} \times 18 + 18}$ New Milk New Milk New Water 63×4 27×4+18×5 252 $=\frac{\frac{252}{108+90}}{=\frac{252}{108+90}}$
 - ∴ Required % = $\frac{252}{450}$ × 100 = 56%
- $\frac{15x+6}{17x+6} = \frac{9}{10}$ 65. (5) 150x + 60 = 153x + 543x = 6x = 2Required age = 15x + 6= 36 years
- Reduced price = $\frac{20 \times 385}{2.5 \times 100}$ = 22 per kg. 66. (4) Original price = $\frac{-\frac{3.5 \times 100}{3.5 \times 100}}{100 \times 22} = Rs. 27.50$
- Given, P = 10000 67. (2) T = 2 year $= 10000 \times \frac{4}{5} \times \frac{4}{5} = Rs.6400$
- Given average of the eight numbers = 20 68.(2) Sum of the eight numbers = $20 \times 8 = 160$ Sum of the first two numbers = 31 Sum of the next three numbers = $21\frac{1}{2} \times 3$ $=\frac{64}{3} \times 3 = 64$ Let the sixth number = x \therefore Seventh number = x + 4and eight number = x + 7Now, total sum = 160 $\therefore 31 + 64 + x + x + 4 + x + 7 = 160$ $\Rightarrow 3x + 106 = 160$ $\Rightarrow x = \frac{54}{3} = 18$ $3 \cdot 8^{th}$ number = x + 7 = 18 + 7 = 25

Let train A start from Station A and B from Station B. 69.(3) Let the trains A and B meet after t h \therefore Distance covered by train A in t h = 50 t km Distance covered by train B in t h = 60 t km According to the question,

60 t - 50 t = 120 $\therefore t = \frac{120}{10} = 12 \,\text{h}$ \therefore Distance AB = $50 \times 12 + 60 \times 12$ $=600 + 720 = 1320 \,\mathrm{km}$

Area of rectangular field = $\frac{\text{Total sum}}{\text{Amount/m}^2}$ 70.(1)

 $= \frac{1000}{0.25} = 4000 \text{ m}^2$ ∴ Length of rectangular field = $\frac{Area}{Breadth}$ = $\frac{4000}{50}$ = 80 cm Since, the length is increased by 20 m : New length = 80 + 20 = 100 mNew area = $100 \times 50 = 5000 \text{ m}^2$ New Expenditure= $5000 \times \frac{25}{100} = 1250 \text{ Rs.}$

- 73.(4)
- No relation
- $? = \frac{251 \times 21 \times 12}{158.13} = 400$
- $\sqrt{?} = 119 \frac{25.6}{100} \times 250 \Rightarrow \sqrt{?} = 55 \Rightarrow ? = 3025.$ 77.(2)
- $? = 17.5 \times 15 = 262.5$ 78.(1)
- $16 \times \frac{2.4}{100} \times ? = 288 \Rightarrow ? = 750$ 79. (4)
- 80. (5) $\sqrt[3]{?} = \frac{28 \times 24}{14} = 48 \Rightarrow ? = 110592$