

IBPS RRB Office Asst. Preliminary Grand Test –IRP-180704 **HINTS & SOLUTIONS**

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

	LG.
12.(2)	The code of 9W0JX7 will be^®∞≠*@ .
42 (2)	D

By using condition (i) the code of D9UPS4 will be

 $\lambda \lambda f \delta' + \lambda$

By using condition (iii) the code of U47LJO will be 13. (3) ∞%@\$≠£

14.(4) By using condition (iv) the code of 4MD0W2 will be μ®∞#©%

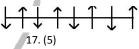
15. (1) By using condition (ii) the code of 7PU49M will be ©&£%^©.

> C faces opposite direction of H. H faces south. A sits fourth to the right of C and one of them sits at the extreme end of the row. Both A and C face same direction (i.e. both faces north). Three persons sit between H and F. D sits to the immediate right of F.B is an immediate neighbor of H. There are two possible cases

Case II

Neither E nor G is an immediate neighbor of A. This will eliminate Case I.

Three persons sit between E and G. G is not at an extreme end of the row. E and G face same direction as F. B and D face same direction as C. So final arrangement will be



19. (4)

16. (3) 18. (2)

16-20.

21-25.

E lives on floor number 4. F lives immediately below E. There is a gap of more than three floors between D and B. D lives above B but not on top floor. C lives immediately above B.

Case1		Case2	
Floor	Person	Floor	Person
8		8	
7	D	7	
6		6	D
5		5	
4	Е	4	Е
3	F	3	F
2	С	2	C
1	В	1	В

A lives above G, who lives on an even numbered floor. So case 2 will be eliminated.

8	A	
7	D	
6	G	
5	Vacant	
4	E	
3	F	
2	С	
1	В	

22. (3)

24. (1)

25. (5)

23. (2) 26. (5)

21. (1)

28. (3)

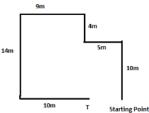
FOUR letters between I and N i.e. J, K, L, M 27. (3)

TWO i.e. TUB and TOP

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- 1.(3) I. A > Z (False) II. Z = A (False)
- 2.(2) I. D < J (False) II. G < D (True)
- 3. (5) I. T > D (True) II. N < F(True)
- 4. (4) I. N < G (False) II. F < O (False)
- 5. (1) I. W > T (True) II. $N \le Y$ (False)

6-7.

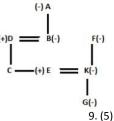


6. (3) ((9+5)-10)=4m

7. (1) West

8-10.

8. (2)



10. (5)

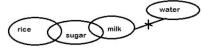
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29. (2) One i.e. IUA

30. (5) All words will have at least one vowel. i.e. ITC, HOL, XHO, CTU, QNU

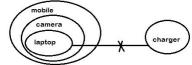
31. (1)



For I- From the venn diagram it is clear that some sugar is milk and no milk is water. So, some sugar which is milk will not be water. Hence, conclusion I can be concluded. For II- Since there is no direct relation between the elements rice and water. So, possibility case will hold

true. Therefore, we can conclude that some rice being water is a possibility.

32. (3)



For I- From the venn diagram it is clear that some camera is laptop, So, possibility case will not hold true. Therefore, we cannot conclude that some camera being laptop is a possibility.

For II- From the venn diagram some mobile is laptop and since no laptop is charger. Therefore, some mobile is not charger can be concluded.

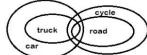
33. (5)



For I- From the venn diagram it is clear that some keyboard is definitely monitor. Therefore, we cannot conclude that no keyboard is Monitor.

For II- Since there is no direct relation between the elements mouse and pointer. Therefore, we cannot conclude that some mouse can never be pointer.

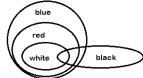
34. (3)



For I- From the venn diagram it is clear that some road is car. So, possibility case will not hold true. Therefore, we cannot conclude conclusion I.

For II- From the venn diagram it is clear that some cycle is definitely car. Hence, conclusion II follows.

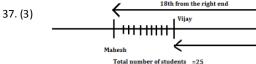
35. (4)



For I- From the venn diagram it is clear that some blue is black. Therefore, we can conclude conclusion I.

For II- From the venn diagram it is clear that some red is definitely white. Hence, conclusion II does not follows.

36. (4)



Mahesh's position from right end is 18th So Vijay's position from the right end is (18-10) = 8th from the right end.

38.(1) 9182736405

1 9 2 8 3 7 4 6 5 0 (New Arrangement)

39. (5) Four



40. (3) $4 + 80 \div 4 \times 2 - 1 = 43$

41. (2)
$$\frac{56}{100} \times 350 + \frac{28}{100} \times 550 - 15 \times 2.4 = ?$$
$$? = 196 + 264 - 36 = 424$$

42. (3)
$$\Rightarrow (64)^{\frac{1}{2}} \times (32)^{\frac{7}{5}} - \frac{?}{100} \times 15 = 28^{2}$$
$$\Rightarrow 8 \times 128 - 784 = 15 \times ?$$
$$? = 16$$

43. (5)
$$7 \times \frac{69}{11} \times \frac{55}{23} = \frac{18}{100} \times 1500$$
$$7 = \frac{18 \times 1500 \times 11 \times 23}{69 \times 55 \times 100}$$

44. (2) ?% of 960 =
$$36^2 - \frac{576}{18} - 32^2$$

?% of 960 = $1296 - 32 - 1024$
? = $\frac{240 \times 100}{18} = 25$

45. (4)
$$?^3 = 11.2 \times 15 + 6.4 \times 7.5$$

 $?^3 = 168 + 48$
 $? = \sqrt[3]{216} = 6$

46. (1) Let principle be P $6500 = \frac{P \times 8 \times 13}{100}$ $\Rightarrow P = 6250$ Now,

CI = 6250
$$\left[\left(1 + \frac{8}{100} \right)^2 - 1 \right] = 6250 \left[\frac{27 \times 27}{25 \times 25} - 1 \right]$$

= Rs 1040

47. (3) Probability of choosing either of the bags = $\frac{1}{2}$ Required Probability = $\frac{1}{2} \times \frac{3}{11} + \frac{1}{2} \times \frac{5}{12}$

$$= \frac{1}{2} \left(\frac{3}{11} + \frac{5}{12} \right)$$

$$= \frac{1}{2} \left(\frac{36+55}{132} \right)$$

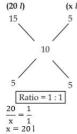
$$= \frac{91}{264}$$

48. (3) Vol. of water flow in one minute = $20 \times 60 \times 5 = 6000 \text{ cm}^3$ $\therefore 1000 \text{ cm}^3 = 1l$

∴ Required value of water flow out = $\frac{6000}{1000}$ = 6 litres

49. (4) A D
Distance = D $S_U = 9 - 3 = 6$ $S_D = 9 + 3 = 12$ $\frac{D}{6} + \frac{D}{12} = 3$ D = 12 km

50. (4) Let x liters second solution mixed in first solution By allegation



51. (2) Total rooms booked in Oberai on Tuesday and Thursday = 280 + 520 = 800Total rooms books in Grand on Monday and Thursday = 280 + 720 = 1000Required percentage = $\frac{1000 - 800}{1000} \times 100 = 20\%$

52. (4) Total rooms booked in Oberai, Lodhi and Taj on Monday
= 360 + 260 + 640 = 1260
Total rooms booked in Taj, Grand and Eros on Thursday
= 375 + 720 + 275 = 1370
Required difference = 1370 - 1260 = 110

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Total room booked in Eros on Wednesday and Thursday = 265 + 275 = 540 Total rooms booked in Lodhi on Thursday and Friday = 215 + 305 = 520

= 27 : 26 Average of room booked in Eros on Monday, Wednesday and Friday = $\frac{155+265+315}{2}$ 54. (3) = 245 Average of room booked in 'Grand' on Monday & Friday $= \frac{280+220}{2}$ = 250

Required sum = 245 + 250 = 495Required percent = $\frac{480-360}{360} \times 100 = 33\frac{1}{3}\%$ 55. (5)

Principle = Rs. 2000 56. (3) Amount = $2000 \left(1 + \frac{20}{2 \times 100}\right)^{\frac{8}{2} \times 2}$ $=2000\left(1+\frac{1}{10}\right)^{3}$ = Rs. 2662 So interest = 2662-2000= Rs. 662

Let the full marks of exam = x 57. (4) 222 + 8% of x = 204 + 11% of x 18 = 3% of x x = 600So full marks = 600 So passing marks = 222 + 8% of 600 = 270 marks

- Speed of train = $\frac{\text{Length}}{\text{Time}}$ 58. (1) Speed = $\frac{570}{38}$ = 15 m/sec Time required in crossing = = 82 sec
- Tank P can fill tank in 12 hours 59. (2) So P's one hour work = $\frac{1}{12}$ Tank Q can fill tank in 15 hours So Q's one hour work = $\frac{1}{15}$ (P + Q)'s one hour work = $\frac{1}{12} + \frac{1}{15} = \frac{9}{60}$ So both together can fill tank in $\frac{60}{9} = 6\frac{2}{3}$ hours
- The letter NOUUEAV has 7 letter 60. (4) In these 7 letters V occurs twice So no. of ways of arrangement = $\frac{7!}{2!}$ = 2520
- 61. (3)
- 62. (5)
- Pattern is 63. (1)



- 65. (4)
- 66. (3) $\Rightarrow ? \simeq \frac{284}{40} \times 100$ ⇒?≃710
- $? = \frac{3}{4} \times \frac{7}{5} \times 100 + \frac{3}{4} \times 432$ 67. (1) $? \simeq 105 + 324$
- ? = 224 + 369 + 460 381 68. (4) $? \simeq 1053 - 381$? ~ 672

- ? $\simeq \sqrt{\frac{30}{100} \times 450 + \frac{20}{100} \times 170}$ 69. (1) $? \simeq \sqrt{135 + 34}$ $? \simeq \sqrt{169}$ $? \simeq 13$
- 70. (2) $? \simeq 110 \div 22 \times 60 + 315 - 220$ $2 \simeq 615 - 220$ 2 × 395
- Discount R₁ = 25% 71. (2) $R_2 = 24\%$ \therefore Equivalent discount = $-R_1 - R_2 + \frac{R_1R_2}{100}$ $= -25 - 24 + \frac{25 \times 24}{1}$ = - 43 i.e discount = 43%
- Let even numbers are x-4, x- 2, x, x+2, x +4 72.(3) $\frac{x-4+x-2+x+x+2+x+4}{2} = 32$ ∴ largest even number = 32 + 4 = 36 Least even number = 32 - 4 = 28
- \therefore required difference = 36 28 = 8 $\Rightarrow 100\% \rightarrow \frac{360}{40} \times 100 = 900$ $\therefore \text{ Number of boys} = \frac{60}{100} \times 900 = 540$

74. (2)

- Let three years before, Ravi's age = 5x Shusma's age = 3x A/q, $\frac{5x+5}{3x+5} = \frac{4}{3}$ $\Rightarrow 15x + 15 = 12x + 20$ $\Rightarrow \chi = \frac{5}{3}$ ∴ Present age of Ravi = $5 \times \frac{5}{2} + 3$ $=\frac{34}{3}yrs$ = 11 yrs 4 months
- (A's profit) : (B's profit) = 50,000 × 12 : 40,000 × 8 \therefore profit share of $A = \frac{15}{23} \times 6900$
 - 631 331 = 25 × ? $? = \frac{300}{25}$?= 12
- $\frac{91 \times 7}{12} = \frac{6 \times 7 \times ?}{6}$ 77. (2) 13 ? = 7
- $(961)^{\frac{1}{2}} \div (20+11) + 15 = (?)^2$ 78. (4) $31 \times \frac{1}{31} + 15 = (?)^2$ $16 = (?)^2$? = 4
- $\frac{1}{3} \times 669 + \frac{7}{8} \times 56 = ? + 11 \times 5$ 79. (1) 223 + 49 = ? + 55 ? = 272 - 55 ?=217
- $\frac{64}{100} \times 7250 \frac{5120}{8} + (10)^3 = ?\% \ of \ 2000$ 80. (3) 4640 - 640 + 1000 = ? ×20 5000 = ? ×20 ? = 250