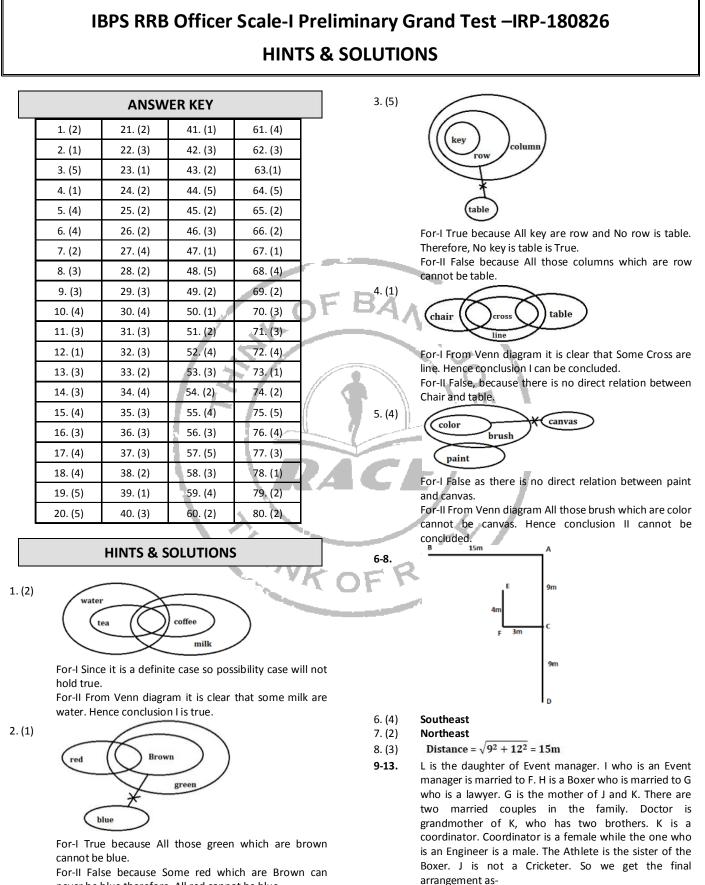
Grand Test – IRP-180826

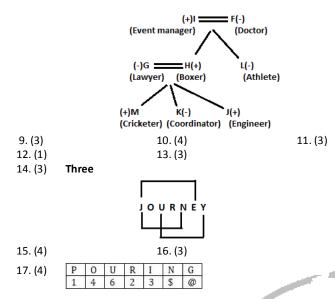




never be blue therefore, All red cannot be blue.

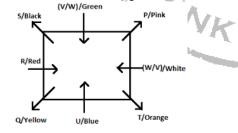
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18-22. R likes red color and sits third to the right of T. Only two persons sit between T and the one who likes green color. The one who likes red color faces the one who likes white color. S likes black color and is an immediate neighbor of R. P likes pink color. U likes blue color. Q sits second to the right of the one who likes orange color. U is not an immediate neighbor of the one who likes white color. We have following possibilities-Case 1 Case 2

Now, Neither V nor W likes orange color. This will eliminate Case 1. So the final arrangement will be-



18. (4)19. (5)20. (5)21. (2)22. (3)

23-27. One person lives between S3 and S4, who does not live on odd numbered floor. The person who studies Maths lives just above the floor of S3. One person lives between the person who studies Maths and the one who studies Chem. So, there will be three possible cases-Case-1 Case-3 Case-3

Floor	Person	Subject	Floor	Person	Subject	Floor	Person	Subje
5		Chem	5		Maths	5		
4	\$4		4	\$3		4	\$4	
3		Maths	3		Chem	3		Maths
2	\$3		2	\$4		2	\$3	
1			1			1		Chem

S5 lives below S4 but not immediately below .This will eliminate Case 2. S5 does not study chem. So this will eliminate Case 3. Two persons live between S2 and the one who studies English. The one who studies Phy does not live on even numbered floor. S1 does not studies Chem. So the final arrangement is---

Floor	Person	Subject	
5	\$2	Chem	
4	S4	Bio	
3	\$1	Maths	
2	S3	English	
1	S5	Phy	
24	4. (2)		25. (2
	7. (4)		·

28-31. B sits second to the right of D. A does not face B. B is not an immediate neighbor of A. This will fix position of A to the second left of D. F does not face D. F does not sit to the immediate right of A. This will fix F to the immediate right of D. Now, C does not sit second to the right of E. So the final arrangement will be-

C

23. (1) 26. (2)

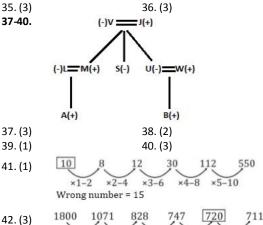
28. (2) 30. (4)

32-36.

32. (3)

29. (3) 31. (3) Elements Codes sweets sa are ra food fa tasty ta good ga nutrients na healthy ha business ba 33. (2) 36. (3) (-)V = J(+)

34. (4)

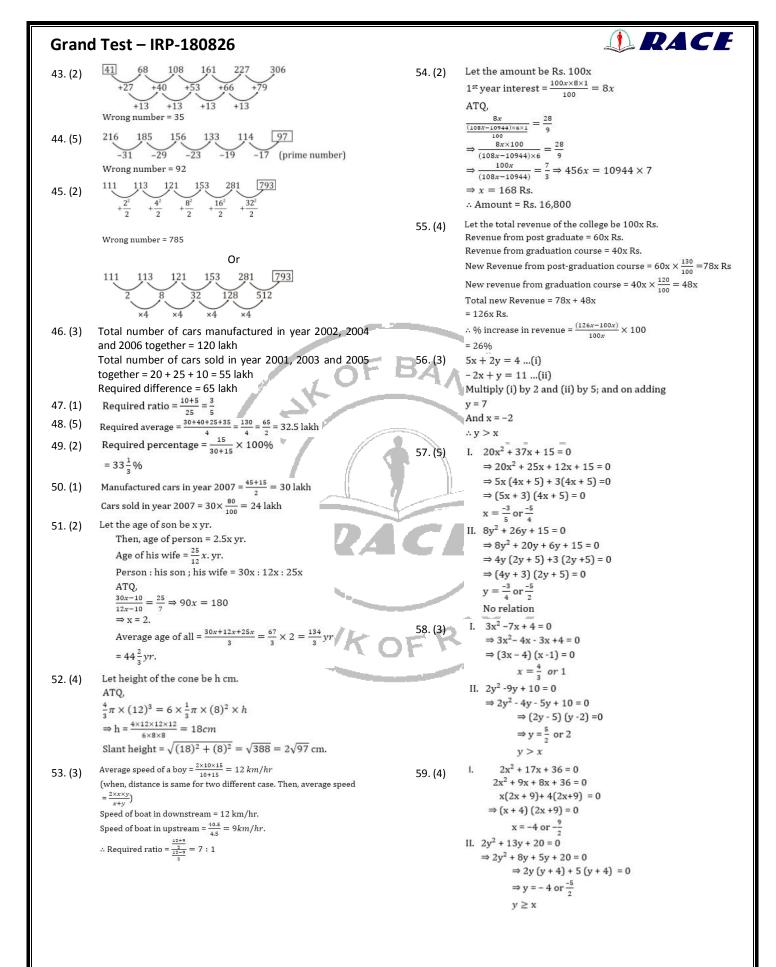


729

Wrong number = 722

-243

81



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I. 2x = 9Average number of boys studying in BSC and BCA together 60. (2) 67.(1) $36000\left(\frac{13}{100}\times\frac{5}{9}+\frac{21}{100}\times\frac{5}{9}\right)$ $x = \frac{9}{2}$ II. $4y^2 - 24y + 27 = 0$ = 3400 \Rightarrow 4y² - 18y - 6y + 27 = 0 Number of girls studying BBA = $36000 \times \frac{15}{100} \times \frac{4}{9} = 2400$ $\Rightarrow 2y(2y-9) - 3(2y-9) = 0$ Required % = $\frac{3400-2400}{2400} \times 100$ $\Rightarrow y = \frac{3}{2} \text{ or } \frac{9}{2}$ $=41\frac{2}{2}\%$ $x \ge y$ 61.(4) Let efficiency of Arun & Rahul be x unit/day & y unit/day 68.(4) Total number of boys studying in BA and B.Com together respectively. $=\frac{36000}{100}\times\frac{5}{9}\times(11+8)=200\times19=3800$ Atq, $(x+y)\times 12 = (x\times 1.4 + y\times 0.8)\times 10$ Total number of students studying B.com and Engineering together 69.(2) $= 36000 \times \frac{40}{100} = 14,400$ 12x +12y = 14x + 8y 4y = 2xTotal number of boys studying B.com and Engineering together $\frac{x}{y} = \frac{2}{1}$ $=\frac{5}{2} \times 14400 = 8000.$ Therefore, efficiency of Arun & Rahul together = 3 units/day Required number of girls = 6400 Total work = 3 × 12 = 36 units Required difference = 1600 Time in which Rahul alone can complete the work $=\frac{36}{1}=36$ days Difference between number of students in Engineering and <u>B.Com</u> 70.(3) $=\frac{24}{100} \times 36000 = 8640$ Let sum be Rs P 62. (3) Total number of students studying BBA, BSC, BA and BCA together Atq, $=\frac{36000}{100} \times 60 = 21600$ $\frac{\text{CI}}{\text{P}} = \left[\left(1 + \frac{\text{R}}{100} \right)^2 - 1 \right]$ Required $\% = \frac{8640}{21600} \times 100 = 40\%$ Alternative Sol. $\frac{24}{25} + 1 = \left(1 + \frac{R}{100}\right)^2$ $\frac{49}{100} = \left(1 + \frac{R}{100}\right)^2$ Required % = $\frac{(32-8)}{(21+15+13+11)} \times 100 = 40\%$ $=\left(1+\frac{R}{100}\right)$ Required percentage = $\frac{(40+35)-(25+35)}{(25+35)} \times 100$ 25 71. (3) R = 40% $\frac{75-60}{60} \times 100 = 25\%$ For time period of 2years PR^2 $P \times (40)^2$ = difference \Rightarrow 120 = 72. (4) Let no. of books sold by shopkeeper Y in 2009 be x 100^{2} $(100)^2$ Atq, P = Rs 750 $x \times \frac{120}{100} = 30,000$ $SI = \frac{P \times R \times Time}{P \times R \times Time} = \frac{750 \times 40 \times 3}{P \times 10^{-10}} = Rs \ 900$ 100 100 x= 25,000 Since total time is 8 hours 30 min 63.(1) No. of books sold by Shopkeeper Z in 2009 Therefore car P will travel for 4 hours 30 min $= 35000 \times \frac{75}{100} = 26,250$ Car Q will travel for 4 hours Therefore, ∴ Required total = 26,250 + 25,000 $x = 20 \times \frac{9}{2} + 40 \times 4$ = 51,250 = 90 + 160 = 250 km 73. (1) Required difference =(35 + 25 + 40) - (40 + 15 + 40) Let marked price of Article A be Rs 100x = 100 - 95 = 5000 64. (5) S.P. of article A = $100x \times \frac{80}{100} = Rs 80x$ Total books sold in 2015 $\frac{80,000}{2} \times 3 = 120,000$ C.P. of article B = $80x \times \frac{6}{5} = Rs \ 96x$ S.P. of article B = $96x \times \frac{115}{100} = Rs \ 110.4x$ Books sold by Y in 2015 = $20,000 \times \frac{140}{100} = 28,000$ Atq, Total books sold by X & Z in 2015 110.4x - 80x = 1216 = 120000 - 28000 = 92,000 x = 40Required percentage = $\frac{92000}{80000} \times 100$ \therefore marked price of article A = 40 × 100 = 115% = Rs 4000 Average books sold by X & Y in 2011 & 2012 together 75. (5) В С 65. (2) Amounts 3 5 $=\frac{1}{2}[55,000+75,000]$ for 4 months 4×3 4×5 4×7 ← → Time × Amount for rest 8 months 8×(3+4) 8×5 8×7 € = 65,000 Average books sold by Z in 2010 & 2014 17 : 15 : 21 Profit ⇒ $=\frac{1}{2}[35,000+35,000]=35,000$ Ţ 3150 Required difference = 65,000 - 35,000 1 unit = 150 Rs. = 30.000 Total profit = 150 × (17+15+21) = Rs 7950 Required ratio = $\frac{8 \times \frac{86000}{100}}{36000 \times \frac{80}{100} \times \frac{4}{9}}$ 76.(4) $(14 + 16 + 14 + 12) + \left(\frac{1}{11} + \frac{3}{11} + \frac{4}{121} + \frac{3}{11}\right) = ?$ 66. (2) $= 56 + \left(\frac{11 + 33 + 4 + 33}{121}\right)$ $=\frac{8\times9}{32\times4}=\frac{9}{16}$ 121 81 $= 56 \frac{1}{121}$

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- 77. (3) 4059 + 3312 3381 = 3990 78. (1) 280.5 - 241.5 = ? ? = 39
- 79. (2) $12 \times 15 + 156 = (?)^3 + 120$
 - \Rightarrow (?)³ = 216
 - ∴?=6
- 80. (2) $\frac{1285 \times 76}{100} = \frac{1256 \times 35}{100} + ?$
 - ⇒ 976.6 = 439.6+?

∴ ? = 976.6 - 439.6 = 537



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