

IBPS CLERK (PRE) - Solution

6. Replace 'their' by 'its'.
7. Replace 'began' by 'begun'.
8. Replace 'confident' by 'confidence'.
9. It should be 'In spite of' instead of 'In spite that'.
10. Replace 'invested' by 'interested/have invested'.



Q.No.31 (A) $11.304 \times (6.839 - 4.331)$ $\approx 11 \times (7 - 4)$ $\approx 11 \times 3 = 33$ ≈ 30	Q.No.32 (B) $61 \times 24.879 \div (14.059 - 6)$ $\approx 61 \times 25 \div (14 - 6)$ $\approx \frac{61 \times 25}{8} = 190.625$ ≈ 190
Q.No.33 (E) $(3.805)^2 \times 14.018 - 5.991$ $\approx (4)^2 \times 14 - 6$ $\approx 16 \times 14 - 6 = 218$ ≈ 200	Q.No.34 (C) $\sqrt{230} \div 2.017 + 58.794$ $\approx \sqrt{225} \div 2 + 59$ $\approx 15 \div 2 + 59$ $\approx 7.5 + 59 = 66.5$ ≈ 68

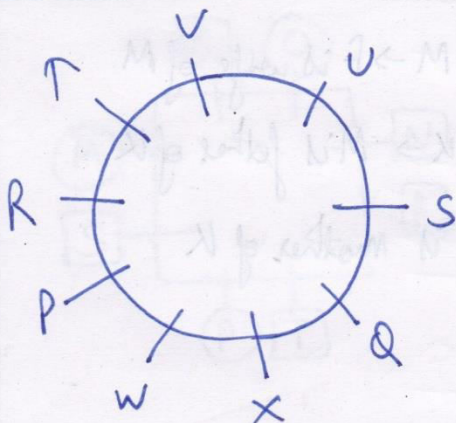
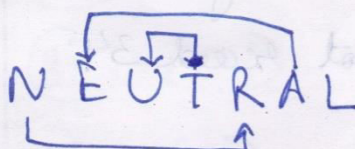
Q.No. 35 (A) $3451 \div 9.895 \times 3.0126$ $\approx \frac{3451}{10} \times 3 \Rightarrow$ ≈ 1035.3 ≈ 1050	Q.No. 36 (E) Let first no be x & second be y $\frac{35}{100}x = 2 \times \frac{75}{100}y$ $\frac{x}{y} = \frac{2 \times 75}{35} = \frac{2 \times 15}{7} = \frac{30}{7}$ $= 30:7$
Q.No. 37 (C) $\frac{2}{3}v \rightarrow 40$ minutes left It is clear that to cover 30 km distance at $\frac{2}{3}v$, it will take by 20 mins. $\frac{30}{\frac{2}{3}v} - \frac{30}{v} = \frac{20}{60}$ $\frac{90-60}{2v} = \frac{1}{3} \Rightarrow v = 45 \text{ km/hr}$ Total distance = $60 + 30 + 30$ $= 120 \text{ km}$	Q.No. 38 (C) Let total distance x $\frac{4}{5}x = (3 \times 12) + (4 \times 15) = 36 + 60$ $x = 120 \text{ km}$ Remaining distance to be covered = $\frac{1}{5}x$ $= \frac{1}{5} \times 120 = 24 \text{ km}$ Time = 6 hrs. $\therefore \text{Speed} = \frac{24}{6} = 4 \text{ km/hr.}$
Q.No. 39 (B) Let the no. of filling taps be n Let of tank filled in 1 hr = $\frac{n}{6}$ " " " emptied in 1 hr = $\frac{16-n}{18}$ $\therefore$ in 1 hr, resultant = $\frac{n}{6} - \frac{16-n}{18}$ $= \frac{2n-8}{9}$, tank is filled in $\frac{3}{2}$ hrs. $\therefore \frac{2n-8}{9} \times \frac{3}{2} = 1 \Rightarrow 2n-8 = 6$ $\Rightarrow n = 7 \Rightarrow$ no. of emptying taps = $16-7 = 9$	Q.No. 40 (D) $A+B+C = \frac{750}{5} = 150$ $A+C = \frac{400}{4} = 100$ $B = 50$ $B+C = \frac{450}{9/2} = 100$ $C = 100 - 50 = 50$ $\Rightarrow A = 50$

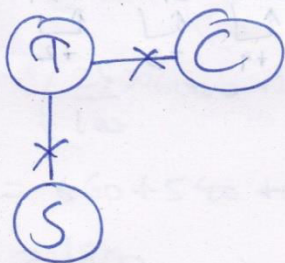
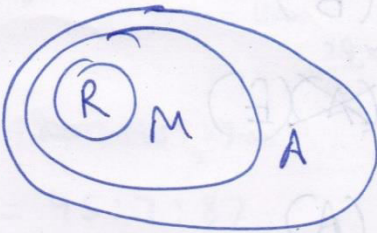
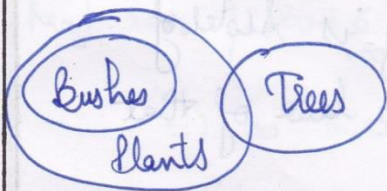
Q.No. 41 (C) $(1)^4 + 5 = 6$ $(2)^4 + 10 = 26$ $(3)^4 + 15 = 96$ $(4)^4 + 20 = 276$ $(5)^4 + 25 = 650$ $(6)^4 + 30 = 1326$ $(7)^4 + 35 = \underline{\underline{2436}}$	Q.No. 42 (D) $(39)^2 = 1521$ $(37)^2 = 1369$ $(35)^2 = 1225$ $(33)^2 = 1089$ $(31)^2 = 961$ $(29)^2 = 841$ $(27)^2 = \underline{\underline{729}}$
Q.No. 43 (A) $(12)^3 + 17 = 1745$ $(14)^3 + 34 = 2778$ $(16)^3 + 51 = 4147$ $(18)^3 + 68 = 5900$ $(20)^3 + 85 = 8085$ $(22)^3 + 102 = 10750$ $(24)^3 + 119 = \underline{\underline{13943}}$	Q.No. 44 (C) $(7 \times 1) + (3 \times 1) = 10$ $(10 \times 2) + (6 \times 2) = 32$ $(32 \times 3) + (9 \times 3) = 123$ $(123 \times 4) + (12 \times 4) = 540$ $(540 \times 5) + (15 \times 5) = 2775$ $(2775 \times 6) + (18 \times 6) = \underline{\underline{16758}}$
Q.No. 45 (B) $23^2 + 4^2 = 39$ $39 + 8^2 = 103$ $103 + 12^2 = 247$ $247 + 16^2 = 503$ $503 + 20^2 = 903$ $903 + 24^2 = \underline{\underline{1479}}$	Q.No. 46 (D) $(47)^2 - (15)^2 = (47-15)(47+15)$ $= 32 \times 62$ $= 1984$

Q.No. 47 (C) $\frac{81}{100} \times 4915$ $= 3981.15$	Q.No. 48 (A) $25 \times \frac{43}{5}$ $= 215$								
Q.No. 49 (C) $93 + 78 - 51$ $93 + 27$ $= 120$	Q.No. 50 (A) $? = \frac{377 \times 58}{1682}$ $= 13$								
Q.No. 51 (A) Milk : water <table> <tr> <td>3 litres → 1.8</td> <td>1.2</td> </tr> <tr> <td>4 litres → 3</td> <td></td> </tr> <tr> <td>5 litres → 4</td> <td>1</td> </tr> <tr> <td></td> <td><u>3.2 l</u></td> </tr> </table> Ratio = $\frac{8.8}{3.2} = \frac{11}{4} = 11:4$	3 litres → 1.8	1.2	4 litres → 3		5 litres → 4	1		<u>3.2 l</u>	Q.No. 52 (B) C.P of first table = $\frac{100 \times 405}{135}$ Profit = $405 - 300 = 105$ $105 = \frac{30}{100} \times (C.P_2)$ $C.P_2 = 350$
3 litres → 1.8	1.2								
4 litres → 3									
5 litres → 4	1								
	<u>3.2 l</u>								

Q.No. 53 (D) $P + 2Q + R = 59$ $Q + R + 3P = 68$ $P + 3Q + 3R = 108$ From equations, $P = 12$ years.	Q.No. 54 (C) $P + F = 115$ $36 \times 115 = P \times 40 + F \times 17$ $\Rightarrow 23 \times F = 4 \times 115$ $\Rightarrow F = 20$
Q.No. 55 (C) $P = \frac{900 \times 100}{6 \times 3} = 5000$ Interest - 1st year 300 2nd year 300 18 3rd year 300 18 18 1.08 $CI = 300 + 300 + 300 + 18 + 18 + 18 + 1.08$ $= 955.08$ Reqd. Amt. = $955.08 - 900 = 55.08$	Q.No. 56 (D) $\text{Total} = 11200 \times 0.48 + 10500 \times 0.5$ $+ 13200 \times 0.45 + 9600 \times 0.48$ $+ 13200 \times 0.55 + 11900 \times 0.60$ $+ 9500 \times 0.44$ $= 39754$
Q.No. 57 (B) Total no. of females = 27938 " " " " males = 27262 $\therefore$ Diff. = 676	Q.No. 58 (A) Female F - 1980 $\rightarrow 3600$ Female A - 2000 $\rightarrow 3900$ $\therefore \text{Reqd \%} = \frac{3900 - 3600}{3600} \times 100$ $= \frac{300}{3600} \times 100 = 8.33$

Q.No. 59 (C) Male 1990 = 3936 Female 1990 = 3936 $\therefore$ Regd % = $\frac{3936 \times 100}{3936}$ = 100 %	Q.No. 60 Ratio = $\frac{9750 \times 0.4}{10500 \times 0.5}$ = $\frac{3900}{5250} = \frac{26}{35}$ $\Rightarrow 26:35$
Q.No. 61 (D) Regd sum = $\left(\frac{26}{100} \times 6000 - 900\right) +$ $\left(\frac{29}{100} \times 6000 - 1200\right) + 600$ = 660 + 540 + 600 = 1800	Q.No. 62 (C) Regd. ratio = 900 : $\left[\frac{29}{100} \times 6000 - 1200\right] :$ $\frac{29}{100} \times 6000$ = 900 : 140 : 1740 = 45 : 7 : 87
Q.No. 63 (E) Regd. ratio = $\left[1200 - \frac{6}{100} \times 600\right]$ = 1200 - 360 = 840	Q.No. 64 (B) No. of girls in Saraswati Vidya Mandir = $\frac{29}{100} \times 6000 - 1200 = 540$ In Doon public school, no. of students = 540

Q.No. <u>65</u> (E) $\text{Regd. \%} = \frac{720 - 500}{540} \times 100$ $= \frac{220}{540} \times 100$ $\approx 40\%$	Q.No. <u>66</u> - <u>70</u> 																											
Q.No. <u>66</u> - (D) <u>67</u> - (B) <u>68</u> - (A) (E) <u>69</u> - (A) <u>70</u> - (C)	Q.No. 68 (71) → (C) <table><tr><td>Y</td><td>S</td><td>R</td><td>M</td><td>L</td><td>H</td><td>G</td><td>D</td><td>CA</td></tr><tr><td>↑</td><td>↑</td><td>↑</td><td>↑</td><td>↑</td><td>↑</td><td>↑</td><td>↑</td><td>↑</td></tr><tr><td>+6</td><td></td><td>+5</td><td></td><td>+4</td><td></td><td>+3</td><td></td><td>+2</td></tr></table>	Y	S	R	M	L	H	G	D	CA	↑	↑	↑	↑	↑	↑	↑	↑	↑	+6		+5		+4		+3		+2
Y	S	R	M	L	H	G	D	CA																				
↑	↑	↑	↑	↑	↑	↑	↑	↑																				
+6		+5		+4		+3		+2																				
Q.No. 71 (72) - (b) NEUTRAL 	Q.No. 70 (73) - (C) The lady is sister of father-in-law of that person.																											

Q.No. 74 (A) F3M $\rightarrow$ F is wife of M M5K $\rightarrow$ M is father of K $\therefore$ F is mother of K	Q.No. 75 (A) Total = $6 + 9 + 18 + 13 - 1$ $= 46 - 1$ $= 45$
Q.No. 76 (D) 	Q.No. 77 (A) 
Q.No. 78 (C) 	Q.No. 79 (C) The total no. of students cannot exceed 34

Q.No. 80 (C) Alum is Grandfather.	Q.No. 81-85																				
Q.No. 81 (A) Q82 (E) Q83 (E) Q84 (B) Q85 (C)	Q.No. 86-90 A → CAT → Delhi → 10 A.M. B → IBPS-PO → Dehradun → 9 A.M. C → CBS → Dispur → 12 A.M. D → CSAT → Dhanbad → 11 A.M.																				
Q.No. 86 (A) (87) (B) (88) (C) (89) (A) (90) (A)	Q.No. 91-95 <table><tr><th>(Yellow)</th><th>(Red)</th><th>(Pink)</th><th>(Blue)</th><th>(Green)</th></tr><tr><td>Dosa</td><td>ice cream</td><td>Burger</td><td>bede</td><td>far</td></tr><tr><td></td><td></td><td></td><td></td><td>Biryani</td></tr><tr><td>3rd</td><td>4th</td><td>5th</td><td>2nd</td><td>1st</td></tr></table> Highest	(Yellow)	(Red)	(Pink)	(Blue)	(Green)	Dosa	ice cream	Burger	bede	far					Biryani	3 rd	4 th	5 th	2 nd	1 st
(Yellow)	(Red)	(Pink)	(Blue)	(Green)																	
Dosa	ice cream	Burger	bede	far																	
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Q.No. 91 (B) Q92 (C) Q93 (D) Q94 (B) Q95 (C)	Q.No. 96 (D) $P < T \geq S = O \geq R = K$
Q.No. 97 (B) $P < Q > T \geq N > S = R$	Q.No. 98 (E) $R \leq P = N < M \leq O$ $R \leq N = P < O \leq M$
Q.No. 99 (D) $A > C$	Q.No. 100 (B) $P < N$