

IBPS PO (PRE) – SOLUTION

<p>Q.No. 31 (D)</p> <p>325, 314, 288, 247, 191, 120</p> <p style="margin-left: 40px;"> $\begin{matrix} \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow \\ -11 & -26 & -41 & -56 & -71 \\ \swarrow & \searrow & \swarrow & \searrow \\ 15 & 15 & 15 & 15 \end{matrix}$ </p>	<p>Q.No. 32 (C)</p> <p>620, 632, 608, 644, 596, 656</p> <p style="margin-left: 40px;"> $\begin{matrix} \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow \\ +12 & -24 & +36 & -48 & +60 \end{matrix}$ </p>
<p>Q.No. 33 (E)</p> <p>$120 \times 2.5 + 20 = 320$</p> <p>$320 \times 2.5 + 20 = 820$</p> <p>$820 \times 2.5 + 20 = 2070$</p> <p>$2070 \times 2.5 + 20 = 5195$</p> <p>$5195 \times 2.5 + 20 = 13007.5$</p>	<p>Q.No. 34 (A)</p> <p>$6 \times 0.5 + 1 = 4$</p> <p>$4 \times 1.5 + 2 = 8$</p> <p>$8 \times 2.5 + 3 = 23$</p> <p>$23 \times 3.5 + 4 = 84.5$</p> <p>$84.5 \times 4.5 + 5 = 385.25$</p>

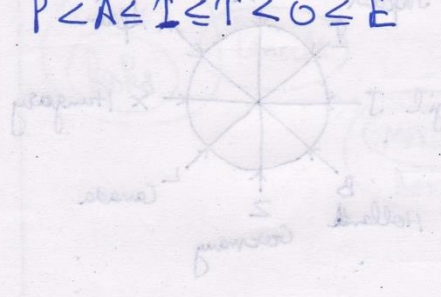
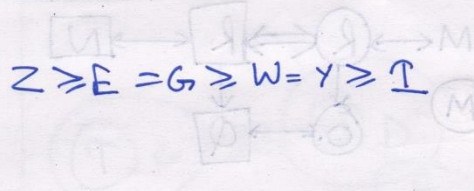
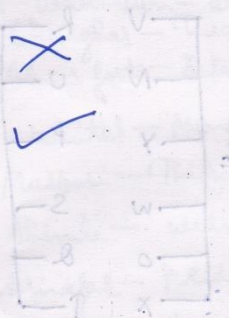
<p>Q.No. 35 (B)</p> $5 \times 1 + 1 \times 6 = 11$ $11 \times 2 + 2 \times 5 = 32$ $32 \times 3 + 3 \times 4 = 108$ $108 \times 4 + 4 \times 3 = 444$ $444 \times 5 + 5 \times 2 = 2230$	<p>Q.No. 36 (C)</p> $\text{Inc. } X_{92} = \text{Exp } Y_{94} = 7 \times \frac{100}{140}$ $= 5 \text{ lac.}$ $\text{Exp. } X_{92} = 5 \times \frac{100}{125} = 4 \text{ lac.}$ $\text{Profit} = 5 - 4 = 1 \text{ lac.}$
<p>Q.No. 37 (B)</p> <p>Exp. $X_{91} = \text{Rs} 1 \text{ lac.}$</p> <p>$\therefore$ Avg. Exp. of X is all years</p> $= \frac{1}{6} \left[1 \times \frac{130}{100} + 1.5 \times \frac{125}{100} + 2 \times \frac{150}{100} + 2.5 \right.$ $\left. \times \frac{140}{100} + 3 \times \frac{120}{100} + 3.5 \times \frac{160}{100} \right]$ $= \frac{1}{600} [130 + 187.5 + 300 + 350 + 360 + 560]$ $= 3.146 \text{ lac.}$	<p>Q.No. 38 (A)</p> <p>Let Exp. X = 200</p> <p>\therefore Inc. X = $200 \times \frac{120}{100} = 240$, Profit = 40</p> <p>Exp. Y = 300</p> <p>\therefore Inc. Y = $300 \times \frac{180}{100} = 540$, Profit = 240</p> <p>Exp. Z = 500</p> <p>\therefore Inc. Z = $500 \times \frac{140}{100} = 700$, Profit = 200</p> <p>Ratio of profit = 40 : 240 : 200</p> $= 1 : 6 : 5$
<p>Q.No. 39 (E)</p> <p>Inc. X = 400000</p> <p>Exp Z = $400000 \times \frac{100}{80} = 500000$</p> <p>Profit Z = $500000 \times \frac{20}{100} = 100000$</p> <p>Profit X = $400000 - \frac{800000}{3} = 133333.3$</p> <p>$\therefore$ reqd. diff = 33333.33</p>	<p>Q.No. 40 (B)</p> <p>In year 1993,</p> $\text{Avg.} = \frac{50 + 30 + 20}{3} = \frac{100}{3}$ <p>In year 1994,</p> $\text{Avg.} = \frac{40 + 40 + 20}{3} = \frac{100}{3}$

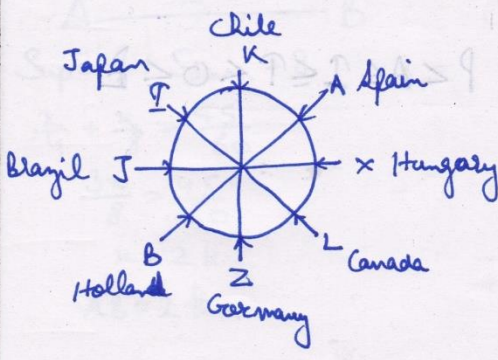
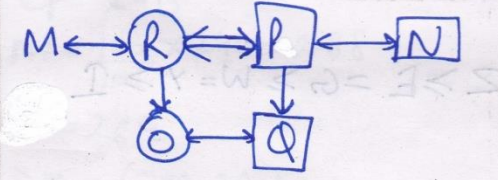
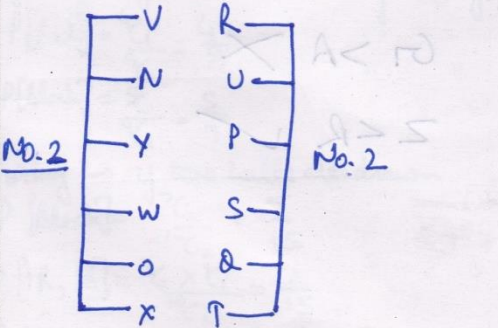
<p>Q.No. 41 (E)</p> $\frac{2.6 \times 440 + 0.4 \times 4880}{100}$ $= 11.44 + 19.52$ ≈ 31	<p>Q.No. 42 (C)</p> $? = 4 \times 36$ $? = 144$
<p>Q.No. 43 (C)</p> $64 \times \frac{9450}{240} = (?)^2$ $= 2520$ $? = 50$	<p>Q.No. 44 (B)</p> $\frac{4985}{216} - \frac{3768}{207}$ $\approx 23 - 18 = 5$
<p>Q.No. 45 (C)</p> $990 + 1 \times 77$ $= 1067$	<p>Q.No. 46 (B)</p> $x = 6, 8$ $y = 2, 3$ $(x > y)$

<p>Q.No. 47 (C)</p> $x = -4, -5$ $y = -3, -4$ $x \leq y$	<p>Q.No. 48 (C)</p> $x = +23, -23$ $y = 23$ $x \leq y$
<p>Q.No. 49 (A)</p> $4x + 6y = 28$ $-4x + 2y = 16$ <hr style="width: 50%; margin-left: 0;"/> $4y = 12$ $y = 3$ $x = \frac{5}{2}$ $x < y$	<p>Q.No. 50 (D)</p> $x = -5, 1$ $y = -1, -3$ $x \geq y$
<p>Q.No. 51 (B)</p> <p>Amount lent by Arunday</p> $= \frac{1}{6} \times [165 + 152 + 84 + 128 + 140 + 149] \times 100$ $= 13550$ <p>By Mohit</p> $= \frac{1}{8} [135 + 116 + 90 + 105 + 165 + 121] \times 100$ $= 12200$ <p>\therefore Reqd. diff. = 1350</p>	<p>Q.No. 52 (C)</p> <p>Reqd. Int. = $\frac{21}{100} \times 16500 + \frac{23.21}{100} \times 12800$</p> $= 3465 + 2970.88$ $= \text{Rs } 6435.88$

<p>Q.No. 53 (D)</p> $16633.4 = 14000 \left[1 + \frac{r}{100} \right]^2$ $\frac{11881}{10000} = \left(1 + \frac{r}{100} \right)^2$ $\frac{109}{100} = 1 + \frac{r}{100}$ $r = 9\%$	<p>Q.No. 54 (A)</p> $992.25 = 14000 \left(\frac{r}{100} \right)^2 \left(\frac{300+r}{100} \right)$ $\text{or } \frac{567}{8} = \frac{r^2(300+r)}{1000}$ $70875 = r^2(300+r)$ <p>By Hit & trial, $r = 15\%$</p>
<p>Q.No. 55 (D)</p> <p>Reqd. earnings = $1350 + 1160 + 900 + 1050 + 1650 + 1210$</p> $= \text{Rs } 7320$	<p>Q.No. 56 (B)</p> $n(\text{Skill}) = 70$ $n(\text{Interviews}) = 65$ $n(\text{Both Skill \& Interviews}) = 100 - 27 = 73$ $\therefore P(\text{Skill \& Interviews}) = 70 + 65 - 73 = 62\%$ $62\% \rightarrow 248$ $\therefore 100\% \rightarrow \frac{248}{62} \times 100 = 400$
<p>Q.No. 57 (A)</p> <p>Ratio of investment = 5:6:4</p> <p>Let total profit = 15</p> <p>Acc. to question</p> <p>30% of 15</p> <p>4.5 (A) (for management)</p> <p>10.5 (B) (for sharing)</p> <p>$\frac{10.5 \times 2}{15} = 3.5$ $\frac{10.5 \times 6}{15} = 4.2$ 2.8</p> <p>Diff = $8 - 7 = 1 \rightarrow 200$</p> <p>$15 \rightarrow 200 \times 15 = \text{Rs } 3000$</p>	<p>Q.No. 58 (E)</p> $S + B + C = 240 \text{ kg}$ $S + B + C + K = 324 \text{ kg} \rightarrow (i)$ $\therefore K = 81 \times 4 - 240 = 84 \text{ kg}$ $R = 84 + 2 = 86 \text{ kg}$ <p>Now given</p> $B + C + K + R = 83 \times 4 = 332 \rightarrow (ii)$ <p>From (i) & (ii)</p> $R - S = 8$ $S = 86 - 8 = 78 \text{ kg}$

<p>Q.No. 59 (D)</p> <p>A \xrightarrow{x} B</p> <p>Sup = 4 : Speed = 8</p> $\frac{x}{4} + \frac{x}{8} = \frac{45}{60}$ $\frac{3x}{8} = \frac{45}{60}$ $x = 2 \text{ km}$ <p>AB = 2 km</p>	<p>Q.No. 60 (C)</p> <p>C = 240</p> $M = 240 \left(\frac{120}{100} \right) = 288$ <p>S = 264</p> $D\% = \frac{(288 - 264)}{288} \times 100$ $= 8\frac{1}{3}\%$
<p>Q.No. 61 (C)</p> <p>CP = 240</p> $MP = \frac{120}{100} \times 240 = 288$ <p>S = 264</p> $D\% = \frac{(288 - 264)}{288} \times 100$ $= 8\frac{1}{3}\%$	<p>Q.No. 62 (C)</p> <p>Let efficiency of worker be 1 unit/day</p> <p>For three workers = 3 units/day</p> <p>\therefore In 10 days, total work = 30 units</p> <p>If a worker works half a day only</p> <p>Then total work in day by 3 workers = 1 + 1 + 0.5 = 2.5</p> $\Rightarrow \frac{30}{2.5} = 12 \text{ days.}$
<p>Q.No. 63 (C)</p> <p>for bag 1 \rightarrow if 1 ball is drawn from bag 1</p> $P[\text{Red}] = \frac{{}^4C_1}{{}^9C_1} = \frac{4}{9}$ $P[\text{black}] = \frac{{}^5C_1}{{}^9C_1} = \frac{5}{9}$ <p>For bag 2 \rightarrow if two balls are drawn</p> $P[\text{black}] = \frac{{}^7C_2}{{}^{10}C_2} = \frac{7}{15}$ $P[\text{R, B}] = \frac{{}^3C_1 \times {}^7C_1}{{}^{10}C_2} = \frac{7}{15}$ $\text{Req. Prob.} = \frac{4}{9} \times \frac{7}{15} + \frac{5}{9} \times \frac{7}{15} = \frac{7}{15}$	<p>Q.No. 64 (B)</p> $4800 = 3600 \left[1 + \frac{R}{100} \right]^3$ $\left(1 + \frac{R}{100} \right)^3 = \frac{4}{3}$ <p>Now, population after 3 years will be</p> $4800 \left[1 + \frac{R}{100} \right]^3 = 4800 \times \frac{4}{3} = 6400$

<p>Q.No. 65 (C)</p> <p>C_1 Height = x Burn in 4 hrs</p> <p>C_2 Height = x Burn in 3 hrs</p> <p>Height burnt in 1 hr for $C_1 = \frac{x}{4}$ " " " " " $C_2 = \frac{x}{3}$</p> <p>Assume after t hrs. $= x - \frac{x}{4}(t) = 2 \left[x - \left(\frac{x}{3}\right)t \right]$ $= 12 - 3t = 24 - 8t$ $\Rightarrow 5t = 12$ $t = 2\frac{2}{5}$ hrs.</p>	<p>Q.No. 66 (B)</p> <p>$P < A \leq I \leq T < O \leq E$</p> 
<p>Q.No. 67 (D)</p> <p>$H \geq A = F \geq G < I$</p>	<p>Q.No. 68 (E)</p> <p>$Z \geq E = G \geq W = Y \geq I$</p> 
<p>Q.No. 69 (D)</p> <p>$A < B$</p>	<p>Q.No. 70 (B)</p> <p>$G > A$ ✗ $Z < R$ ✓</p> 

<p>Q.No. 71 - 75 (D) 20 010</p> 	<p>Q.No. 71 - (A) (C) 20 010</p> <p><u>Q 72 - (E)</u></p> <p><u>Q 73 - (C)</u></p> <p><u>Q 74 - (E)</u></p> <p><u>Q 75 - (A)</u></p>
<p>Q.No. 76 - 77 (E) 20 010</p> 	<p>Q.No. 76 - (D) (D) 20 010</p> <p><u>Q 77 - (D)</u></p>
<p>Q.No. 78 - 80 (D) 20 010</p> <p><u>No. 2</u></p> 	<p>Q.No. 78 - (E) (D) 20 010</p> <p><u>Q 79 - (C)</u></p> <p><u>Q 80 - (A)</u></p>

<p>Q.No. 81 (B)</p>	<p>Q.No. 82 (C)</p>
<p>Q.No. 83 (C)</p>	<p>Q.No. 84 (B)</p>
<p>Q.No. 85 (C)</p>	<p>Q.No. 86-90</p> <p>Floor - Lessons - Destination - Days.</p> <ul style="list-style-type: none"> 7 - O - Bangalore - Tuesday 6 - L - Alwar fort - Saturday 5 - M - Nainital - Monday 4 - P - Mussoori - Thursday 3 - Q - Shimla - Wednesday 2 - N - Srinagar - Friday 1 - R - Mysuru - Sunday.

<p>Q.No. 86 - (A)</p> <p>Q-87 - (A)</p> <p>Q-88 - (C)</p> <p>Q-89 - (C)</p> <p>Q-90 - (B)</p>	<p>Q.No. 91 - 95</p> <p>Patna Lucknow basis Hongkong Pune</p> <p>X Y M L N</p> <p>↓ ↑ ↑ ↓ ↓</p> <p>↑ ↓ ↓ ↑ ↓</p> <p>J I G H K</p> <p>Newyork Goa Singapore London Mathura</p>
<p>Q.No. 91 - (B)</p> <p>Q-92 - (A)</p> <p>Q-93 - (A)</p> <p>Q-94 - (A)</p> <p>Q-95 - (C)</p>	<p>Q.No. 96 (C)</p>
<p>Q.No. 97 (C)</p>	<p>Q.No. 98 - 100</p>

Q.No. 98 - (C)
Q-99 - (D)
Q-100 - (C)

IBPS PO (PRE) MOCK TEST - 2

ANSWER KEY

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

11. (D) Replace 'have' with 'had'
12. (A) It should be 'Hardly did I step' instead of 'Hardly I stepped'
13. (B) Replace 'such higher' by 'so high'
14. (C) Replace 'what' by 'that'
15. (C) Remove 'not' after 'were'
16. (C) Replace 'has' by 'had'
17. (A) Add 'a' after 'It being rainy'
18. (C) Remove 'the' after 'was'
19. (B) Replace 'were' by 'was'
20. (D) Add 'a' before 'thousand'