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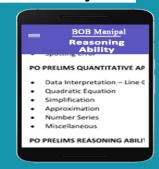
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BANK OF BARODA (QUANTITATIVE APTITUDE) MEMORY BASED PAPER -SOLUTIONS

Directions (51 - 55):

Males in company = $\frac{86}{75+86} \times 1650 = 860$

Females in company = 1650 - 860 = 790

Males in Product development department = 198

Employees in Sales and marketing department = $\frac{18}{100} \times 1650 =$

Males in Sales and marketing department = $\frac{5}{6} \times 297 = 165$

Females in Sales and marketing department = 132

Males in finance department = 77

Females in Finance department = $\frac{5}{7} \times 77 = 55$

Females in Product development department = 165

Males in HR department = $77 \times 2 = 154$

Males in R&D and reinvestment department = 860 (198+165+77+154) = 266

Females in R&D and reinvestment department $\frac{19}{14} \times 266 = 361$ Females in HR department = 790 - (132 + 55 + 165 + 361) = 77

(e) required difference = 266 - 165 = 101

52.

(b) required percentage = $\frac{361}{790} \times 100 \approx 45.7\%$ (b) required percentage = $\frac{165-55}{165} \times 100 = 66\frac{2}{3}\%$ 53.

- 54. (b) no. of males in Product development, Sales and marketing and HR departments = 198 + 165 + 154 = 517No. of females in Product development, finance and R&D and reinvestment department = 361 + 55 + 165 = 581Difference = 64
- (b) females shifted from Sales and marketing 55. Department $\frac{5}{12} \times 132 = 55$ Females in HR department = 77 + 55 = 132Males in HR department = 154 Required ratio= $\frac{154}{132} = 1.17$
- (d); Total No. of students in IT = $\frac{21}{100} \times 7800 = 1638$ No. of boys in IT=1638 $-(\frac{28}{100} \times 4550) = 364$ Required percentage= $\frac{364}{1638} \times 100 = 22.22\%$
- (c); Boys in IT=364 Boys in mechanical=949, total boys in IT and Mechanical together=1313
- (b); No. of girls in computer science and Electronics and communication together = 1365 No. of boys in Civil and computer science together=1573 Required percentage= $\frac{1365}{1573} \times 100 \approx 87\%$
- 59. Required % age = $\frac{364}{7800} \times 100 = 4.66 \approx 4.67\%$
- (e); No. of girls in computer science = $\frac{14}{100} \times 4550 = 637$ No. of boys in IT = $\left(\frac{21}{100} \times 7800\right) \left(\frac{28}{100} \times 4550\right) = 364$
- (a); $+(8\times6)-1,+(8\times7)-1,+(8\times8)-1,+(8\times9)-1$ $1, +(8 \times 10) - 1$

```
284 + (8 \times 9) - 1 = 284 + 71
62.
       (d); +(0)^2, -5^2, +10^2, -15^2, +20^2, -25
```

- (d); $+11^2$, $+9^2$, $+7^2$, $+5^2$, $+3^2$ $290 + 5^2 = 290 + 25 = 315$
- (e); $\times 1 + 2^{3} \times 2 + 3^{3} \times 3 + 4^{3} \times 4 + 5^{3} \times 5 + 6^{3} \times 6 +$

1473 × 5 | 63 == 7581

(e); -80, +10, -40, +20.... 65. 447 - 20 = 427

(a); $(13.68)^2 - (4.78)^2 + (8.28)^3 - (5.24)^3$ 66. = 187 - 22 + 567 - 143= 165 + 424 $= 589 \approx 600$

(c); $32 \div 4 \div 10 + 29 = ?$ 67. $? = 8 \div 10 + 29$ $? = 29.8 \approx 30$

68. (e);
$$\sqrt{?} = (1248.28 + 51.7) \div 99.9 - 7.98$$
 $\sqrt{?} = (1300 \div 100) - 8$ $\sqrt{?} = 5$ $? = 25$

- 71. 2040 + 2300 + 2400 + 2200 + 2090 + 2120 =(b); 13150
- (d); $\frac{2250-2180}{2180} \times 100 = 3.21\%$ 72.
- 73. (c); Number of students in college P in 2008 = 2540. Total number of students in P in all years = 13780. Required percentage = $\frac{2540}{13780} \times 100 = 18\%$ (approx.)
- (a); Required ratio = (2250 + 2480): (2260 + 2440)74. =4730:4700=473:470
- (e); $\frac{(2500+2250+2450+2150+2020+2300)}{6} = \frac{13670}{6} = 2278$ 75.
- (a); Average = $\frac{1}{4} \times [150 + 300 + 300 + 500 + 650 +$ 76. 800] = 450
- 77. (e); 650: 700: 550 = 13:14:11
- (c); Req% = $\frac{250-200}{200} \times 100 = 25\%$ 78.
- (d); $\frac{800+700+660}{3} = 720$ 79.
- 80. (a); 300:200:350 = 6:4:7
- (b);Let Required men = x $\frac{60\times60}{3} = \frac{(60-x)\times30}{1}$ 40 = 60 - x



- x = 2082. (a); Let the two digit number = 10x + y $10x + y - x - 10y = 1.8 \times 10$
 - 9x 9y = 18x - y = 2
- 83. (d); A \rightarrow 3 \times 700 + 3 \times 500 + 6 \times 620
 - $B \rightarrow 600 \times 12$
 - $A \rightarrow 7320 = 366 = 183$
 - $B \rightarrow 7200 = 360 = 180$
 - ∴ Ratio of their investment = 183: 180
 - ∴ Amount, A receive = $\frac{183}{363}$ × 726
 - $= 183 \times 2 = 366 \text{ Rs.}$
- 84. (b); Let initial amount = 100

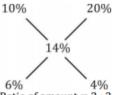
Now, total amount = $100 + 14 + \frac{45}{100} \times 114$

- ∴ 165.3 → 16530
- $1 \rightarrow \frac{16530}{165.3}$
- $100 \rightarrow 100 \times 100 = 10,000 \text{ Rs}.$
- (c); C.P. 80x 90x 85.
- (80x + 10)
- (90x + 2)
- $\therefore \frac{105}{100}(80x+10) = 90x+2$
- 8400x + 1050 = 9000x + 200

$$600x = 850$$

- $\therefore \text{Required C.P.} = \frac{85}{60} \times 80$
- $= \frac{\frac{3}{340}}{\frac{3}{3}} = 113 \frac{1}{3} \text{Rs.}$
- (c); Krishna $\rightarrow 3x \times 2t \Rightarrow 6xt$ 86.
 - Nandan $\rightarrow x \times t \Rightarrow xt$
 - Ratio of their profits = 6:1
 - ∴ Required amount = $\frac{4000}{1}$ × 7 = 28000 Rs.
- 87. (e); Let total population = 100
 - ∴ After first year = 100 + 15 = 115
 - After second year = 115 23 = 92
 - After third year = 92 + 4.6 = 96.6
 - ∴ 100 → 32000
 - $96.6 \rightarrow \frac{32000}{100} \times 96.6$
 - $= 320 \times 96.6 = 30912$
- 88. (c); Let students appeared from school A = 100
 - : Qualified students from school A = 60
 - Now, student appeared from school B = 130

 - And Qualified student from school B = 60 + 36 = 96 \therefore Required % = $\frac{96}{130} \times 100 = \frac{960}{13} = 73\frac{11}{13}\%$
- (b); Let original expenditure of mess for students = x89. $(x-1) \times 40 - 36x = 32$
 - 40x 40 36x = 32
 - 4x = 72
 - x = 18
 - ∴ Required expenditure = 18 × 36 = 648 Rs.
- 90. (c); Let amount invested at 20% per annum = x Rs. By mixture and allegation method



- Ratio of amount = 3:2
- ∴ Total amount invested = $\frac{12000}{3}$ × 5 = 20,000 Rs.
- (d); Let required no. of days = x

$$\frac{(x-5)}{10} + \frac{(x-3)}{12} + \frac{x}{15} = 1$$
$$\frac{6x-30+5x-15+4x}{15} = 1$$

$$15x - {}^{60}_{45} = 60$$

- 15x = 105
- x = 7 Days
- (b); Reqd. Probability = $\frac{2c_1+1c_1}{c_1}$ 92.
- $(4c_1 \times 8c_1 + 4c_2) = \frac{38}{12 \times 11} \times$ 93. (c); Reqd. probability = $2 = \frac{19}{33}$
- (d); Reqd. probability = $\frac{(4c_2 \times 5c_1)}{}$ = 94.
- 95. (d);

350 500

Chandan 100 125, 400 500

Difference of their profit = 150 - 100 = 50

- ÷ 50 → 135
- $500 \rightarrow \frac{135}{50} \times 500 = 1350 \text{ Rs.}$

Ans.(c)

Sol. After dividing, we get $x^2 + x - 12 = 0$, x = -4, 3 After dividing we get, $= y^2 + 7y + 12 = 0$, y = -4, -3 $x \ge y$

 $x \leq y$ 97. Ans.(a)

Sol.
$$2x^2 - 41x + 20 = 0, x = \frac{1}{2}, 20$$

$$-2y^2 - 19y - 35 = 0, x = \frac{-5}{2}, -7$$

Sol.
$$y = -\frac{59}{5}, x = \frac{-57}{5}$$

99.

$$x = -\frac{21}{6}, -\frac{10}{6} \quad y = -\frac{2}{2}, -\frac{1}{2}$$
$$-\frac{7}{2}, -\frac{5}{3} \quad -1, -\frac{1}{2}$$

- **100.** (c); **I.** $2x^2 4x \sqrt{13}x + 2\sqrt{13} = 0$ $2x(x-2) - \sqrt{13}(x-2) = 0$

$$(x-2)(2x-\sqrt{13})=0$$

- $II. 10y^2 18y 5\sqrt{13}y + 9\sqrt{13} = 0$ $2y(5y-9)-\sqrt{13}(5y-9)=0$

$$2y(5y-9) - \sqrt{13}(5y-9)(5y-9)(2y-\sqrt{13}) = 0$$
$$y = \frac{9}{5}, \frac{\sqrt{13}}{2}$$

- $x \ge y$