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## Profit and Loss Questions for IBPS PO Pre and SBI PO Pre Exams

### Profit n Loss Quiz 21

Directions : Read the following questions carefully and choose the right answer.

- Two product are sold at the same price, one is sold at a profit of 14.28% and the other one is sold at a loss of 14.28%. What is the net loss (in Rs.) on both the products together, if the selling price of one is Rs. 576?  
A. 22                      B. 28                      C. 24                      D. 36                      E. 27
- Product A and B are sold at a profit of 37.5% and 20% respectively after a discount of 16.66% and 20% respectively. If the ratio of cost price of A and B is 4 : 5 and the difference between their marked price is Rs. 207, what is the total amount of profit (in Rs.)?  
A. 620                      B. 475                      C. 530                      D. 575                      E. 600
- Marked price of an item is ten times the profit on its sale. If the discount on the item is 50%, then the cost price is what percent less than the selling price.  
A. 30%                      B. 40%                      C. 50%                      D. 20%                      E. None of these
- A shopkeeper sells an item at 87.5% profit. Next year, the cost price of the item is increased but he still sells the item at the old selling price. His profit this year has been decreased by 50%. Find by what percent the cost price was increased this year.  
A. 12.5%                      B. 22.5%                      C. 30.25%                      D. 37.5%                      E. 43.75%
- The ratio of marked price of A and B is 4 : 5. A and B are sold at a profit of 33.33% and 11.11% respectively and both are sold after a discount of 20%. If the total profit of A and B is Rs. 84, what is the total cost price(in Rs.) of A and B?  
A. 480                      B. 360                      C. 420                      D. 600                      E. 540

6. Amount of profit and discount on the sale of an item was equal. If profit percent on the item was  $42\frac{6}{7}\%$ , then find the discount percent.
- A.  $13\frac{1}{23}\%$       B.  $33\frac{1}{7}\%$       C.  $23\frac{1}{13}\%$       D.  $25\frac{1}{11}\%$       E. CND
7. When a shopkeeper sells three pens at a discount of 18%, the profit decrease by Rs. 72 or 40% as compared to the profit when he sells them at 10% discount. At what price (in Rs.) he should sell two pens to earn a profit of 14.28%?
- A. 640      B. 440      C. 560      D. 480      E. 540
8. Two items A and B are sold together at 24% overall profit. Overall discount on them was 22.5% such that the discount on A was Rs. 20 more than the discount on B. Marked price for both was equal to Rs. 400. If profit on both of them was equal and the cost price of B was Rs. 20 more than the cost price of A, find the sum of selling prices of the two items.
- A. Rs. 300      B. Rs. 320      C. Rs. 480      D. Rs. 620      E. Rs. 800
9. A book is sold at a profit of 10% after a discount of 8.33%. Had it been sold at Rs. 20 more, the profit would have been 11.11% of the selling price. What is the original marked price (in Rs.) of the book?
- A. 1080      B. 630      C. 720      D. 840      E. None of these
10. An electronics goods shop owner used to sell refrigerators at 28% more than the cost price. If a customer paid Rs. 8,320 for a refrigerator after negotiating for a discount of Rs. 640, find the cost price of the refrigerator?
- A. Rs. 6500      B. Rs. 6800      C. Rs. 7000      D. Rs. 7200      E. Rs. 8000



**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
C	D	D	E	C	C	D	D	E	C

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### Explanation:

1. Let the products be A and B

A is sold at profit of 14.28% and B is sold at loss of 14.28%

$$\text{SP of A} = 576, \text{CP of A} = 576 \times \frac{7}{8} = 504$$

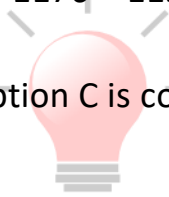
$$\text{SP of B} = 576, \text{CP of B} = 576 \times \frac{7}{6} = 672$$

$$\text{Total CP} = 504 + 672 = 1176$$

$$\text{Total SP} = 2 \times 576 = 1152$$

$$\text{Net loss} = 1176 - 1152 = \text{Rs. } 24$$

Hence, option C is correct.



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2. Let the CP of A = 40k and B = 50k

For A, Profit = 37.5% and Discount = 16.66%

$$\text{SP} = 40k \left(1 + \frac{3}{8}\right) = 55k$$

$$\text{SP} = \left(1 - \frac{1}{6}\right) \text{MP}$$

$$\text{MP} = \text{SP} \times \frac{6}{5} = 55k \times \frac{6}{5} = 66k$$

For B, Profit = 20% and Discount = 20%

$$\text{SP} = 50k \left(1 + \frac{1}{5}\right) = 60k$$

$$MP = 60k \times \frac{5}{4} = 75k$$

$$\text{Difference between MP} = 75k - 66k = 9k$$

$$9k = 207$$

$$k = 23$$

$$\text{Total profit} = (55k - 40k) + (60k - 50k) = 25k$$

$$= 25 \times 23 = 575$$

Hence, option D is correct.

- 3.** Let the cost price be 100C and the marked price be 100M, then the selling price = 50M

$$\text{We have profit} = \text{selling price} - \text{cost price} \rightarrow \text{profit} = 50M - 100C$$

$$\text{Therefore, } 10 \times (50M - 100C) = 100M \rightarrow M = 2.5C$$

$$\text{Cost price} = 100C$$

$$\text{Selling Price} = 50M = 125C$$

$$\text{Percentage} = \frac{125C - 100C}{125C} \times 100 = 20\%$$

Hence, option D is correct.

- 4.** Let cost price for first years was Rs. 200C, then the profit = Rs. 175C, and selling price = Rs. 375C

$$\text{Profit for next year} = \frac{175C}{2} = \text{Rs. } 87.5C$$

$$\text{Cost price next year} = 375C - 87.5C = 287.5C$$

Cost price increment percent

$$= \frac{(287.5C - 200C)}{200C} \times 100 = 43.75\%$$

Hence, option E is correct.

5. Let the MP of A = 40k and MP of B = 50k

$$\text{SP of A} = 80\%(40k) = 32k, \text{ SP of B} = 80\%(50k) = 40k$$

$$\text{CP of A} = 32k \times \frac{3}{4} = 24k, \text{ Profit} = 32k - 24k = 8k$$

$$\text{SP of B} = 40k \times \frac{9}{10} = 36k, \text{ Profit} = 40k - 36k = 4k$$

$$\text{Total profits} = 8k + 4k = 12k$$

$$12k = 84 \rightarrow k = 7$$

$$\text{Total CP} = 24k + 36k = 60k$$

$$= 60 \times 7 = \text{Rs. } 420$$

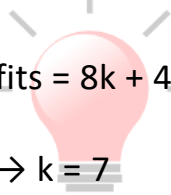
Hence, option C is correct.

6. Let the cost price of the item was Rs. 100C and the profit = discount = Rs. 100y

Then, we have

$$\text{Profit \%} = \frac{100y}{100C} \times 100 = 42 \frac{6}{7} \% \rightarrow \frac{y}{C} = \frac{3}{7}$$

$$\text{Amount of marked price} = 100C + 100y + 100y = 100C + 200y$$



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$$\text{Discount Percent} = \frac{100y}{[100C + 200y]} \times 100$$

$$= \frac{(3C/7)}{[C + 6C/7]} \times 100 = \frac{300}{13} = 23\frac{1}{13} \%$$

Hence, option C is correct.

7. Let the MP of three pens = 100k

$$\text{SP1} = 90\% (100k) = 90k$$

$$\text{SP2} = 82\% (100k) = 82k$$

Profit decreases by 40% or Rs. 72

$$\text{So, original Profit} = \frac{72 \times 100}{40} = 180$$

$$90k - 82k = 72$$

$$k = 9$$

MP of three pens = 900

$$\text{CP of three pens} = 90 \times 9 - 180 = 630$$

$$\text{CP of one pen} = 210$$

$$\text{CP of two pens} = 420$$

SP for a profit of 14.28% on two pens

$$= 420 \times \left(1 + \frac{1}{7}\right) = \text{Rs. } 480$$

Hence, option D is correct.



8. We assume the following variables:

Item	CP	Profit	SP	Discount	MP
A	100y (let)	100P	100y + 100P	100D + 20	400
B	100y + 20	100P	100y + 20 + 100P	100D	400
Total	200y + 20	200P	200y + 20 + 200P	200D + 20	800

Now, we have

$$\text{Overall profit \%} = \frac{200P}{200y+20} \times 100$$

$$= 24 \rightarrow 10P = 2.4y + 0.24 \text{ ----(i)}$$

$$\text{Overall discount \%} = \frac{200D + 20}{800} \times 100$$

$$= 22.5 \rightarrow D = 0.8$$

$$\text{MP of A} = 400 \rightarrow 100y + 100P + 100D + 20 = 400 \rightarrow y + P = 3 \text{ ----(ii)}$$

From (i) and (ii), we get  $y = 2.4$  and  $P = 0.6$

Thus, total selling price =  $200 \times 2.4 + 20 + 200 \times 0.6 = \text{Rs. } 620$

Hence, option D is correct.

9. Let the cost price be 100k

$$\text{SP} = 110\%(100k) = 110k$$

$$\text{Profit} = 10k$$

$$SP = \left(1 - \frac{1}{12}\right) MP$$

$$\frac{SP}{MP} = \frac{11}{12}$$

$$MP = 120k$$

Had it been sold at Rs. 20 more

$$SP = 110k + 20, \text{ Profit} = 10k + 20$$

$$\frac{\text{Profit}}{SP} = 11.11\% = \frac{1}{9}$$

$$\frac{(10k + 20)}{(110k + 20)} = \frac{1}{9}$$

$$k = 8$$

$$MP = \text{Rs. } 960$$

Hence, option E is correct.

**10.** Selling price =  $8320 + 640 = 8960$

$$\text{Cost price} = \frac{8960}{1.28} = 7000$$

Hence, option C is correct.



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