



## **Profit & Loss Questions for SSC GD PDF**

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### Instructions

For the following questions answer them individually

#### Question 1

A shopkeeper purchased a TV for Rs.2,000 and a radio for Rs.750. He sells the TV at a profit of 20% and the radio at a loss of 5%. The total loss or gain is

- A Gain Rs.353.50
- B Gain Rs.362.50
- C Loss Rs.332
- D Loss Rs.300

**Answer:** B

#### Explanation:

Cost price of TV = Rs. 2000

Profit % = 20%

$$\Rightarrow \text{Selling price of TV} = 2000 + \left(\frac{20}{100} \times 2000\right) \\ = 2000 + 400 = \text{Rs. } 2400$$

$$\text{Similarly, selling price of radio} = 750 - \left(\frac{5}{100} \times 750\right) \\ = 750 - 37.5 = \text{Rs. } 712.5$$

$$\text{Thus, total cost price} = (2000 + 750) = \text{Rs. } 2750$$

$$\text{and total selling price} = (2400 + 712.5) = \text{Rs. } 3112.5$$

$$\therefore \text{Gain} = 3112.5 - 2750 = \text{Rs. } 362.50$$

$\Rightarrow$  Ans - (B)

#### Question 2

A house worth Rs.1,50,000 is sold by X to Y at 5% profit. Y sells the house back to X at 2% loss. Then in the entire transaction:

- A X gains Rs.3150
- B X loses Rs.4350
- C X loses Rs.1350
- D X gains Rs.4350

**Answer:** A

#### Explanation:

In the first transaction :

Cost price for X = Rs. 1,50,000

Profit % = 5%

$$\begin{aligned}\Rightarrow \text{Selling price for X} &= \text{Cost price of Y} = 1,50,000 + \left(\frac{5}{100} \times 1,50,000\right) \\ &= 1,50,000 + 7500 = \text{Rs. } 1,57,500\end{aligned}$$

In the second transaction :

Cost price for Y = Rs. 1,57,500

Loss % = 2%

$$\begin{aligned}\Rightarrow \text{Selling price for Y} &= \text{Cost price of X} = 1,57,500 - \left(\frac{2}{100} \times 1,57,500\right) \\ &= 1,57,500 - 3150 = \text{Rs. } 1,54,350\end{aligned}$$

$$\therefore \text{Total profit for X} = 1,57,500 - 1,54,350 = \text{Rs. } 3150$$

$\Rightarrow$  Ans - (A)

### Question 3

A trader sold an article at a gain of 20%. Had he purchased it for 40% more and sold for Rs 24 less, then he would have incurred a loss of 20%. What is the cost price (in Rs) of the article?

A 150

B 300

C 450

D 600

**Answer: B**

### Explanation:

Let cost price of article = Rs.  $100x$

Profit % = 20%

$$\begin{aligned}\Rightarrow \text{Selling price} &= 100x + \left(\frac{20}{100} \times 100x\right) \\ &= 100x + 20x = \text{Rs. } 120x\end{aligned}$$

$$\begin{aligned}\text{Now, new cost price} &= 100x + \left(\frac{40}{100} \times 100x\right) \\ &= 100x + 40x = \text{Rs. } 140x\end{aligned}$$

Also, new selling price = Rs.  $(120x - 24)$

$$\Rightarrow \text{Loss \%} = \frac{140x - (120x - 24)}{140x} \times 100 = 20$$

$$\Rightarrow \frac{20x + 24}{7x} = \frac{20}{5}$$

$$\Rightarrow 20x + 24 = 4 \times 7x$$

$$\Rightarrow 28x - 20x = 24$$

$$\Rightarrow x = \frac{24}{8} = 3$$

$\therefore \text{Cost price} = 100 \times 3 = \text{Rs. } 300$

=> Ans - (B)

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### Question 4

By selling a table for Rs.2700 a man gets 10% loss, and than at what price (in Rs) should he sell to gain  $33\frac{1}{3}\%$ ?

A 3000

B 3300

C 3600

D 4000

**Answer: D**

#### Explanation:

Selling price = Rs. 2700 and loss % = 10%

$$\Rightarrow \text{Cost price} = \frac{2700}{(100-10)} \times 100$$

$$= 30 \times 100 = \text{Rs. } 3000$$

$$\text{Profit \%} = 33\frac{1}{3} = \frac{100}{3} \%$$

$$\therefore \text{Selling price} = 3000 + \left( \frac{100}{3 \times 100} \times 3000 \right)$$

$$= 3000 + 1000 = \text{Rs. } 4000$$

=> Ans - (D)

### Question 5

A trader buys two articles for Rs 4000 each. While selling if he gains 12.5% on one and losses 20% on the other, then what will be the overall loss percentage?

A 2.5

B 3.75

C 5

D 5.25

**Answer: B**

#### Explanation:

Cost price of each article = Rs. 4000

Profit % on one article = 12.5%

$$\Rightarrow \text{Selling price of first article} = 4000 + \left(\frac{12.5}{100} \times 4000\right)$$

$$= 4000 + 500 = \text{Rs. } 4500$$

$$\text{Similarly, selling price of second article} = 4000 - \left(\frac{20}{100} \times 4000\right)$$

$$= 4000 - 800 = \text{Rs. } 3200$$

$$\text{Thus, total cost price} = 4000 + 4000 = \text{Rs. } 8000$$

$$\text{Total selling price} = 4500 + 3200 = \text{Rs. } 7700$$

$$\therefore \text{Overall loss \%} = \frac{(8000-7700)}{8000} \times 100$$

$$= \frac{300}{80} = 3.75\%$$

$\Rightarrow$  Ans - (B)

#### Question 6

If a man were to sell his hand-cart for ₹720, he would lose 25%. At what price must he sell it to gain 25% ?

A ₹960

B ₹1152

C ₹768

D ₹1200

**Answer: D**

#### Explanation:

Selling price = Rs. 720

Loss % = 25%

$$\Rightarrow \text{Cost price} = \frac{720}{(100-25)} \times 100$$

$$= 720 \times \frac{4}{3} = \text{Rs. } 960$$

Profit % = 25%

$$\Rightarrow \text{Selling price} = 960 + \left(\frac{25}{100} \times 960\right)$$

$$= 960 + 240 = \text{Rs } 1200$$

$\Rightarrow$  Ans - (D)

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#### Question 7

By selling some goods at ₹31, a salesman loses 7% on his output. Find the percentage profit or loss. When he sells the same at ₹35.

- A Profit 5%
- B Loss 5 %
- C Loss 7 %
- D Profit 7 %

**Answer: A**

**Explanation:**

Selling price = Rs. 31 and loss % = 7%

$$\Rightarrow \text{Cost price} = \frac{31}{(100-7)} \times 100$$

$$= \frac{3100}{93} = \text{Rs. } \frac{100}{3}$$

If selling price = Rs. 35

$$\Rightarrow \text{Profit \%} = \frac{35 - \frac{100}{3}}{\frac{100}{3}} \times 100$$

$$= \frac{(105-100)}{100} \times 100 = 5\%$$

$\Rightarrow$  Ans - (A)

**Question 8**

Satish bought two articles at the same price. He sold one of them at 27% profit and one at 39% loss. What is his net profit/loss percentage?

- A 12% loss
- B 12% profit
- C 6% profit
- D 6% loss

**Answer: D**

**Explanation:**

Let the CP of each article be Rs. 100x

Then, total CP = 100x \* 2 = 200x

SP of the article sold at 27% profit = Rs. 127x

SP of the article sold at 39% loss = Rs. 61x

Total SP of both articles = Rs. (127x + 61x) = Rs. 188x

Since CP > SP, we can say that Satish incurred loss in this transaction.

Net loss incurred = Rs. (200x - 188x) = Rs. 12x

Net profit % =  $\frac{12x}{200x} \times 100 = 6\%$ .

Therefore, option D is the right answer.

### Question 9

Ajay sold his bike to Raman at 10% profit. Raman sold that bike to Abir at 10% profit. Abir sold that bike to Sumi at 10% loss. If Sumi paid 10890 for the bike, how much did Raman pay for the bike?

- A Rs. 10000
- B Rs. 12100
- C Rs. 11000
- D Rs. 10900

**Answer:** C

#### Explanation:

Let the CP of bike be Rs.  $100x$

SP for Ajay = CP for Raman = Rs.  $100x + 10\%$  profit = Rs.  $110x$

SP for Raman = CP for Abir = Rs.  $110x + 10\%$  profit = Rs.  $121x$

SP for Abir = CP for Sumi = Rs.  $121x + 10\%$  loss = Rs.  $108.9x$

It is given that,

$$108.9x = 10890$$

$$\Rightarrow x = 100$$

CP for Raman = Rs.  $110x$  = Rs. 11000

Hence, option C is the correct answer.

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### Question 10

A merchant marks the price of his articles 20% above the cost price. If he allows 20% discount, then what is the profit or loss percentage?

- A 2% loss
- B 4% profit
- C 4% loss
- D No profit/loss

**Answer:** C

#### Explanation:

Let cost price = Rs.  $100x$

$$\Rightarrow \text{Marked price} = 100x + \left(\frac{20}{100} \times 100x\right) = Rs. 120x$$

Discount % = 20%

$$\Rightarrow \text{Selling price} = 120x - \left(\frac{20}{100} \times 120x\right) = Rs. 96x$$

$\therefore$  Selling price < Cost price, thus loss % =  $\frac{(100x-96x)}{100x} \times 100 = 4\%$

=> Ans - (C)

#### Question 11

The marked price of an article is 60% more than its cost price. What maximum discount percentage can be offered by the shopkeeper to sell his article at no profit or no loss?

A 37.5

B 62.5

C 50

D 25

Answer: A

#### Explanation:

Let cost price = Rs.  $100x$

Markup % = 60%

=> Marked price =  $100x + \left(\frac{60}{100} \times 100x\right) = \text{Rs. } 160x$

To have no profit/loss, => Selling price = Rs.  $100x$

$\therefore$  Discount % =  $\frac{(160x-100x)}{160x} \times 100$

=  $\frac{600}{16} = 37.5\%$

=> Ans - (A)

#### Question 12

Mukesh sells two shirts. The cost price of the first shirt is equal to the selling price of the second shirt. The first shirt is sold at a profit of 30% and the second shirt is sold at a loss of 30%. What is the ratio of the selling price of the first shirt to the cost price of the second shirt?

A 91:100

B 100:91

C 31:50

D 50:31

Answer: A

#### Explanation:

Let cost price of 1st shirt = Rs.  $100x$

Profit % = 30%



=> Selling price of 1st shirt =  $100x + \left(\frac{30}{100} \times 100x\right) = Rs. 130x$

Also, selling price of 2nd shirt = Rs.  $100x$

Loss % = 30%

=> Cost price of 2nd shirt =  $\frac{100x}{(100-30)} \times 100 = Rs. \frac{1000x}{7}$

$\therefore$  Required ratio =  $\frac{130x}{\frac{1000x}{7}}$

=  $(13 \times 7) : 100 = 91 : 100$

=> Ans - (A)

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### Question 13

Rahul professes to lose 16% on selling sugar and uses a weight of 680 gm instead of 1 kg. What is the total profit percentage?

A 23.53

B 16

C 28.57

D 19.24

Answer: A

#### Explanation:

Let cost price of 1 kg sugar = Rs. 1000 (1 gm sugar cost Re. 1)

=> Cost price of 1 kg sugar (680 gm in reality) = Rs. 680

Selling price after 16% loss of 1 kg sugar =  $1000 - \left(\frac{16}{100} \times 1000\right) = Rs. 840$

$\therefore$  Profit % =  $\frac{(840-680)}{680} \times 100$

=  $\frac{400}{17} = 23.529 \equiv 23.53\%$

=> Ans - (A)

### Question 14

N professes to lose 25% on rice and uses a weight of 750 gm instead of 1 kg. What is the total profit or loss percentage?

A 5.25% profit

B 12.5% profit

C No profit/loss

**D** 5.25% loss

**Answer: C**

**Explanation:**

Let cost price of N = Rs. 1000/kg = Re. 1/gm

Loss % = 25%

=> Selling price = Rs. 750/750 gm = Re. 1/gm

Since, both the cost price and selling price are equal, thus N has no profit or loss.

=> Ans - (C)

**Question 15**

**If 60% of total articles are sold at a loss of 50% and remaining articles are sold at a profit of 50%, then what will be the overall loss percentage?**

**A** 20

**B** 15

**C** 25

**D** 10

**Answer: D**

**Explanation:**

Let total articles = 100 and price of all the articles = Rs. 100

Number of articles sold at 50% loss =  $\frac{60}{100} \times 100 = 60$

Selling price of these articles =  $60 - \left(\frac{50}{100} \times 60\right)$

=  $60 - 30 = Rs. 30$

Similarly, selling price of (remaining 40) articles sold at 50% profit =  $40 + \left(\frac{50}{100} \times 40\right)$

=  $40 + 20 = Rs. 60$

Thus, net selling price = Rs. 90

$\therefore$  Overall loss % =  $\frac{(100-90)}{100} \times 100 = 10\%$

=> Ans - (D)

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