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## RRB JE Profit \& Loss Questions Set-2 PDF

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## Instructions

For the following questions answer them individually

## Question 1

If an article is sold at Rs. 304.5, the shopkeeper incurs a loss of $13 \%$. What should be his selling price to gain a profit of $13 \%$ ?

A Rs. 395.5

B Rs. 387.5

C Rs. 399

D Rs. 391.5

E Rs. 401


## Answer: A

## Explanation:

Let cost price be 'cp', and the two selling prices be 'sp1' and 'sp2' respectively.
Loss\% $=$ (cost price - selling price) ${ }^{*} 100 /$ (cost price)
$0.13 *$ cp = cp - sp1
$\mathrm{sp1}=0.87 *$ cp
$c p=304.5 / 0.87=350$
Profit\% $=($ - cost price + selling price) $* 100 /$ (cost price)
0.13 *350 = sp2 - 350
sp2 = Rs. 395.5
Hence, option A is the right choice.
Question 2
Ram buys toys at 8 pieces per 70 rupees. He sells toys in boxes containing 5 toys. At what price must he sell a box if he wants to realize a profit percentage of 60\%?

A Rs. 50

B Rs. 60

C Rs. 70

D Rs. 80

E Rs. 90
Answer: C

## Explanation:



Let us assume that Ram buys 40 pieces. He will buy 40 pieces for $70 * 5=$ Rs. 350 .
Ram will pack these 40 pieces into $40 / 5=8$ boxes.
Ram wants to realize a profit percentage of 60\%.
$=>$ Selling price of the 8 boxes $=1.6 * 350=$ Rs. 560
$=>$ Selling price of 1 box $=$ Rs. $560 / 8=$ Rs. 70
Therefore, option C is the right answer
Question 3
A salesman makes a profit of $30 \%$ when he gives a discount of $35 \%$ on the marked price. What will be the profit if the discount given is $\mathbf{2 0 \%}$ ?

A $45 \%$

B 50\%

C $63 \%$
D $55 \%$

E 60\%
Answer: E

## Explanation:

Let ' $x$ ' be the marked price.
Discount of $35 \%$, selling price will be $=0.65 x$
Since the profit is $30 \%$,
cost price * $1.3=0.65 x$
cost price $=0.5 \mathrm{x}$
When discount of $20 \%$, selling price will be $=0.8 x$
Profit\% $=\stackrel{0.8 x>0.5 x}{0.5 x} * 100=60 \%$
Hence, option E is the right answer.

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## Question 4

A dishonest shopkeeper marks up the price of the goods by $50 \%$ and then offers a discount of $20 \%$. He uses a faulty weighing machine which shows $\mathbf{1 0 0 0} \mathbf{g}$ when the actual weight is $\mathbf{8 0 0} \mathbf{g}$. What is his profit percentage in the sales?

A $25 \%$

B $20 \%$

C $50 \%$
D $32 \%$

E $40 \%$
Answer: C

## Explanation:

Let he has 1000 g of goods and cost price of this entire lot is 1000 . So selling price would be $1000 * 1.5^{*} .8=1200$. i.e 1.2 per gram.

Now, the machine measures 1000 gm for 800 gm . Hence, he can sell 1000 gm as 1250 gm . Thus, the amount earned by him will be $1250 * 1.2=1500$.
Hence, the profit percentage is 50 \%.

## Question 5

An article when sold for 960 fetches $20 \%$ profit. What would be the percent profit /loss if such 5 article are sold for Rs. 825/-each?

A $3.125 \%$ profit
B 3.125 \% loss
C Neither profit nor loss
D 16.5 \% profit

E None of these


Answer: A

## Explanation:

Let cost price of an article $=R s .100 x$
If Selling price $=$ Rs 960
$=>$ Profit $\left.\%=\begin{array}{c}960-100 x \\ 100 x\end{array}\right) \times 100=20$
$=>960-100 x=20 x$
$=>20 x+100 x=120 x=960$
$=>x={ }_{120}^{960}=8$
Thus, cost price of 1 article $=100 \times 8=R s .800$
If selling price $=$ Rs. 825
$\therefore$ Profit $\%={ }_{800}^{825-800} \times 100$
$=\stackrel{25}{8}=3.125 \%$
$=>$ Ans $-(\mathrm{A})$

## Question 6



Mahesh bought 10 pencils for 80 rupees and he sold them at 9.2 rupees per each pencil. What is the profit /loss percentage?

A $17 \%$

B $25 \%$

C $20 \%$

D $15 \%$
Answer: D

## Explanation:

Cost price of 10 pencils $=$ Rs 80
Selling price of 10 pencils $=9.2 * 10=$ Rs 92
Profit percentage $=((92-80) / 80) * 100=(12 / 80) * 100=15 \%$.
So the correct option to choose is D $-15 \%$

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## Question 7

The cost price of an article is Rs.1700. If it was sold at a price of Rs.2006, what was the percentage profit on the transaction?

A 18

B 12

C 10

D 15

E 20

## Answer: A

## Explanation:

Profit $=$ S.P. - C.P. $=2006-1700$

= Rs. 306
$=>$ Profit $\%={ }_{306}^{300} * 100$
= 18\%
Question 8


Manoj incurred a loss of 40 percent on selling an article for 5,700 . What was the cost price of the article ?

A 7,725

B 9,080

C 8,250

D 9,400

E None of these
Answer: E

Explanation:
SP $=5700$
Loss percentage $=40 \%$
$(C P-S P) / C P=40 / 100$
$C P=(5 / 3) \times S P$
$=9500$
Question 9
A whole-seller sells apples to a fruit vendor at cost price. The vendor manages to trick the whole-seller into giving him an extra apple per four apples that he buys. But, the whole-seller on sensing some foul play decides to change the weighing machine, citing some fault in it, for measuring the remaining twothirds of the lot. The new weighing machine is such that it shows the weight of 3 apples equivalent to 5 apples. How much does the whole-seller originally gain/lose in the entire transaction? (Assume all apples to be of uniform size and weight)

A Loss of 18.33\%

B Gain of $18.33 \%$

C Loss of 37.78\%

D Gain of 37.78\%
Answer: D

## Explanation:

Given, fruit vendor buys at the cost price to the whole-seller.
Let, us assume the cost price of an apple $=$ Re 1
Two cases arise:
Case 1: Before changing weighing machine
Since, the vendor is getting an apple extra per 4 apples bought
For whole-seller:
$\mathrm{CP}=\mathrm{Rs} 5$
SP=Rs 4
Loss \% $=\left[\begin{array}{c}5-4 \\ 5\end{array}\right] * 100=20 \%$
Case 2: After changing weighing machine For whole-seller:
$C P=R s 3$

$S P=R s 5$
Profit $\%=\left[\begin{array}{c}5-3 \\ 3\end{array}\right] * 100=66.67 \%$
Since, the measurements in the two lots are in the ratio of 1:2 We can apply alligation to find out the net profit/loss \%:



On solving for $x$
$\begin{aligned} & 66.67-x \\ & x+20\end{aligned}=\begin{aligned} & 1 \\ & 2\end{aligned}$
$=>\mathrm{x} \approx 37.78 \%$


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## Question 10

A shopkeeper, after being insisted by a customer, gives a discount of $33.33 \%$. He later realizes that he made a loss of Rs $\mathbf{1 0}$. He calculates that he should have a given a discount of only $\mathbf{2 0 \%}$ to get the profit of Rs 10. By what \% does the shopkeeper mark up the price of the item?

A 36.36\%

B $25 \%$

C $30 \%$

D 33.33\%

## Answer: A

## Explanation:

Let the MP of the item be $x$.
Thus, according to the given conditions we get
$x-S P \quad 1$
$x=3$
$=>3 x-3 S P=x$
$2 x$
Thus, $S P=3$
He made a loss of Rs 10 on selling the item at this SP.

Thus, $C P=10+3$
After giving a discount of $20 \%$ the SP would have been $0.8 x$
He made a profit of Rs 10 on selling the item at this SP.
$4 x$
Thus, $C P=5-10$
Thus, we get,
$2 x \quad 4 x$
$10+3=5-10$
$x *(12-10)$
Thus, $15=20$
Thus, $x=150=M P$
Thus, $C P=0.8 * 150-10=110$

$$
\begin{array}{cl}
100 *(150-110) & \\
110 \quad \approx 36.36 \%
\end{array}
$$

Thus, the shopkeeper marks up the price of the given item by Hence, option A is the correct answer.

## Question 11

For an umbrella, the ratio of the marked price to the cost price is $9: 8$. What is the approx. profit/loss percentage if the ratio of the percentage discount offered and the profit or loss percentage were in the ratio 4:5?

A $6.4 \%$ loss
B $6.6 \%$ profit
C $5.8 \%$ loss
D $7.1 \%$ profit
Answer: B

## Explanation:

markedprice $\quad 9$
Let the marked price $=9 x$ and cost price $=8 x$
percentagediscount
profit/losspercentage $={ }_{5}^{4}$
Let the percentage discount $=4 \mathrm{y} \%$ and profit/loss percentage $=5 \mathrm{y} \%$
Considering there is a profit,
Selling price $=(1-4 y \%) * 9 x=(1+5 y \%) * 8 x$
$9 x-36 x y / 100=8 x+40 x y / 100$
$x=76 x y / 100$
$y=100 / 76$
So percentage profit $=5 * 100 / 76=6.6 \%$ approx.
Hence, option B is the right answer.

## Question 12

Arjun sells a cycle to Ben at a profit of 28\%. Charan buys it from Ben at Arjun's cost price. What is Ben's percentage profit or loss in the transaction?

A 33.33\%

B 14.58\%

C $21.88 \%$

D 36.67\%

E 36.58\%

## Answer: C

## Explanation:

Let Arjun's CP be $x$
Arjun's SP will be $1.28 x$
Ben's CP $=1.28 x$
Given, Charan's $C P=x$. Hence, Ben's $S P=x$.
Hence, Ben's loss $=0.28 x$
Loss $\%=(0.28 / 1.28) * 100=21.88 \%$

## Question 13

A person marked up an item $16 \%$ above Cost Price and gave a discount of $\mathbf{2 5 \%}$. Then find effective loss percent.

A $15 \%$

B 11\%

C $9 \%$

D $13 \%$
Answer: D

## Explanation:

Let the Cost Price of the item be Rs. 100
Then, Marked Price $=116 \%$ of Rs. $100=$ Rs. 116


Selling Price after a discount of $25 \%=75 \%$ of Rs. $116=$ Rs. 87
Therefore, Effective loss percent $={ }_{100}^{100-87} \times 100=13 \%$
Question 14
A person bought 50 oranges for Rs. 450 and sold at the rate of Rs. 108 per dozen. Then, find overall profit/loss percent.

A 11.11\% loss

B No Profit No loss

C $\mathbf{1 2 . 5 \%}$ profit
D 11.11\% profit
Answer: B


## Explanation:

Cost Price of 50 oranges $=$ Rs. 450
Cost Price of 1 orange $=450 / 50=\mathrm{Rs}, 9$
Selling Price of 12 oranges $=$ Rs. 108
Selling Price of 1 orange $=$ Rs. $108 / 12=$ Rs. 9
Therefore, Profit $=$ Rs. $9-$ Rs. $9=0$
Hence, There is no profit and no loss in this transaction.

## Question 15

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 ther 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\%

$=>$ Selling price of TV $=2000+(\underset{20}{100} \times 2000)$
$=2000+400=R s .2400$
Similarly, selling price of radio $=750-\left(\begin{array}{c}5 \\ 100\end{array} \times 750\right)$
$=750-37.5=$ Rs. 712.5
Thus, total cost price $=(2000+750)=R s .2750$
and total selling price $=(2400+712.5)=R s .3112 .5$
$\therefore$ Gain $=3112.5-2750=R s .362 .50$
$=>$ Ans - (B)

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