 b Selling price c Marked price d Profit 2. A shopkeeper sold an article at 20% profit, that means he has got 20% extra on which of the	8.	the article cost? a ₹ 400 b ₹ 350 c ₹ 380 d ₹ 450 Lemons are bought ₹ 48 per dozen and sold at the rate of ₹ 40 per 10 lemons. During this					
price? a Cost price b Selling price c Marked price d None of the above		business, what is percentage profit or loss occurred? a 10% profit b 10% loss c No profit or loss d None of the above					
3. The selling price of goods which cost ₹ 10 and sold at a gain of 10%, is a ₹ 12 b ₹ 11 c ₹ 9 d ₹ 11.10 3. A man sells a mare for ₹ 1085 making a profit of 8 ½. The cost price of mare is a ₹ 982 b ₹ 999.50 c ₹ 927.75 d ₹ 1000	9.	and is n offe selli	marked price of a pen is increation then a discount of 20% is allowed increased and discount of 20 red. Then, by how much per centre price changed? 25% 20% 20% 2-20% 3-10% 4-10%	ved.	If MRP		
Equivalent discount of 20%, 10% and 10% is a 40% b 35%	10.		List I		11-10		
c 35.2% d 65%		_			List II		
A man buys 5 oranges in ₹ 6 and sells		A.	If CP = 150, loss per cent = 20%, then SP =	i.	Profit		
6 oranges in ₹ 5. In this transaction, he experiences loss. To gain 20% profit, what should be the selling rate of oranges?		В.	If SP = 250, profit per cent = 25%, then CP =	ii.	₹ 120		
a ₹ 2 per orange b ₹ 1 per orange		C.	If profit = 10% and loss = 10%, then (successive) resultant will be	III.	₹ 200		
c ₹ 1.44 per orange		D.	If SP > CP, then occurs.	iv.	1% loss		
d None of the above	. 7-7-11		THE RESERVE OF THE PARTY OF THE		THE PERSON		

1. Discount on any item is calculated on which of

the following prices?

a Cost price

7. The marked price of an article is ₹ 500. The

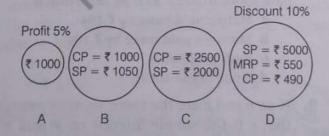
shopkeeper gives a discount of 5% and still

makes a profit of 25%. Then, how much did

Codes

- A B C D
 a (i) (ii) (iii) (iv)
 b (ii) (iii) (iv) (i)
 c (ii) (iv) (iii) (i)
- d (ii) (i) (iii) (iv)
- 11. A sells a bicycle to B at a profit of 30% and B sells it to C at a loss of 20%. If C pays ₹ 520 for it. Then, at what price did A buy?
 - a ₹ 450
 - b ₹ 500
 - c ₹ 600
 - d ₹ 550
- 12. Two stores *A* and *B* charge ₹ 750 for a video game. This week, there is sale offer on both the stores. The video game available at store *B* is of ₹ 600 and 25% off at store *A*. At which store, the video game is less expensive?
 - a A
 - b B
 - c Same at A and B
 - d None of the above
- 13. A dealer sold a radio at a loss of 2.5%. Had he sold it for ₹ 100 more, he would have gained 7.5%. For what value should he sell it in order to gain 12 ½ %?
 - a ₹ 1000
- b ₹ 1125
- c ₹ 1250
- d ₹ 1500
- 14. Divya purchased 20 dozens notebooks at ₹ 48 per dozen. She sold 8 dozens at 10% profit and remaining at 20% profit. What is his total profit percentage in this transaction?
 - a 16%
- **b** 30%

- c 15%
- d 25%
- 15. Choose odd one from the given figures.



- a A
- b B
- CC
- d D

- **16.** *A, B* and *C* marked an article at ₹ 5000 each. *A* sold it after giving successive discounts of 20% and 40%. *B* sold it after giving a 60% discount. *C* sold it after giving two successive discounts of 30% each. The maximum selling price (in ₹) is
 - a 2400
- **b** 2450
- c 2000
- d 1600
- 17. State 'T' for true or 'F' for false.
 - If selling price is less than cost price, then profit occurs.
 - II. Discount per cent is calculated on SP.
 - III. On selling a fan for ₹ 810, the gain is 8%. Then, CP of fan is ₹ 750.
 - IV. The marked price is always fixed more than selling price.
 - V. CP = MRP Discount

Codes

	Ι	II	III	IV	V		I	II	III	IV	V
a/	F	F	T	T	F	b	T	T	T	T	F
Ą	F	T	Т	T	F	d	T	T	T	F	T

- **18.** Fill in the blanks with the help of options, given in the box.
 - (i) 800, (ii) 4.5, (iii) 195, (iv) discount, (v) 2.5, (vi) 11 \frac{1}{9}\%, (vii) 1000, (viii) 199.5, (ix) Sales tax, (x) 10\%
 - is charged on the sale of an item by the government and is added to the bill amount.
 - II. In the first year, on an investment of ₹ 60000, the loss is 5% and in the second year, the gain is 10%. The net result after 2 yr is ___ % gain.
 - III. A vendor losses the selling price of 4 oranges on selling 36 oranges. His loss % is ...
 - IV. The marked price of an article when it is sold for ₹ 880 after a discount of 12%, is
 - V. 5% sales tax is charged on an article marked ₹ 200 after allowing a discount of 5%, then amount payable is ____.

(ix)

(i)

Codes

d (ii) (iv)

	I	II	III	IV	V
a	(ix)	(ii)	(vi)	(vii)	(viii)
b	(i)	(ii)	(iii)		
C	(vi)	(vii)	(viiii)		(x)

(vi)

- 2. Profit/loss is always calculate on CP.
- 3. CP = ₹10

$$= 10 \times \frac{10}{100} = 1$$

4. SP = ₹ 1085

Profit per cent =
$$8\frac{1}{2}$$
%

$$CP = ?$$

By using the formula,

$$CP = \frac{SP \times 100}{100 + Profit\%}$$

$$\therefore CP = \frac{1085 \times 100}{100 + 8.5}$$
$$= \frac{1085 \times 100}{108.5}$$

5. Use formula for successive discount for x%, y% and z%.

First,
$$x + y - \frac{x \times y}{100} \rightarrow r\%$$
 [say

Then, r% and z%

$$\left(r+z-\frac{r\times z}{100}\right)\%$$

So,
$$r\% = 20 + 10 - \frac{20 \times 10}{100} = 28\%$$

: Final discount

$$= 28 + 10 - \frac{28 \times 10}{100} = 38 - 2.8$$

6. CP of 5 oranges = ₹ 6 Profit per cent = 20%

$$\therefore \text{ SP of 5 oranges} = 6 + 6 \times \frac{20}{100}$$

$$= 6 + 1.2$$
= ₹ 7.2

∴ SP of 1 orange = ₹ $\frac{7.2}{5}$ = ₹ 1.44

7. Marked price of an article = ₹ 500 Discount per cent = 5%

.: SP of article

$$= ₹ \left(500 - 500 \times \frac{5}{100}\right)$$

Profit per cent = 25%

∴ CP of article =
$$\frac{475 \times 100}{100 + 25}$$

= $\frac{475 \times 100}{125}$ = ₹ 380

8. CP of 1 lemon =
$$\frac{48}{12}$$
 = ₹ 4
SP of 1 lemon = $\frac{40}{10}$ = ₹ 4

i.e. no loss or profit during this transaction.

Let marked price of a pen be ₹ 100. Discount = 20%

$$\therefore SP = 7 \left(100 - 100 \times \frac{20}{100} \right)$$

= ₹ 80

New marked price

$$= 100 + 100 \times \frac{20}{100}$$

Discount allowed = 20%

∴ New SP = ₹
$$\left(120 - 120 \times \frac{20}{100}\right)$$

$$\therefore \text{ Per cent change in SP} = \frac{16}{80} \times 100$$
$$= 20\%$$

Let cost price of A be ₹ 100.

= ₹100 + (₹100 ×
$$\frac{30}{100}$$
)= ₹130

:. SP of B = CP of C

=₹130 -
$$\left(₹130 \times \frac{20}{100}\right)$$
=₹104

If C pays ₹ 104, then CP of A is ₹ 100.

∴ C pays ₹ 520, then CP of A

$$= 7\frac{100 \times 520}{104} = 7500$$

12. Stores A and B charge for video game = ₹ 750

For store B,

SP of video game = ₹ 600

For store A,

SP of video game

$$= 750 - \left(750 \times \frac{25}{100}\right)$$

So, store A provides video game at less price.

13. Let CP of radio be ₹ 100.

SP, if profit =
$$7.5\%$$

$$SP = 100 + 100 \times 7.5\%$$

$$= 100 + 100 \times \frac{7.5}{100}$$

= ₹107.5

∴ Difference in SP = ₹ 10

When difference is ₹ 10, CP of radio

When difference is ₹ 100, CP of radio = ₹ 100 × 100 = ₹ 1000

Profit per cent = 12.5%

$$\therefore SP = 1000 + 1000 \times \frac{12.5}{100}$$

14. CP of 20 dozens notebooks

CP of 8 dozens notebooks

SP of 8 dozens notebooks

CP of 12 dozens notebooks

SP of 12 dozens notebooks

$$= 2 \left(576 + 576 \times \frac{20}{100} \right)$$

= ₹ 691.2

Profit per cent =
$$\frac{153.6}{960} \times 100$$

15. In option (c) there is loss and in all other cases, there is profit.

For A marked an article is ₹ 5000. Successive discount for A,

$$x + y - \frac{xy}{100} = 20 + 40 - \frac{20 \times 40}{100}$$
$$= 60 - \frac{800}{100} = 52\%$$

$$\therefore \text{ Selling price} = 5000 - 5000 \times \frac{52}{100}$$

For B marked an article is ₹ 5000.

Selling price =
$$5000 - 5000 \times \frac{60}{100}$$

= $5000 - 3000 = ₹2000$

For C marked an article is ₹ 5000. Successive discount for C.

$$x + y - \frac{x \times y}{100} = 30 + 30 - \frac{30 \times 30}{100}$$
$$= 60 - \frac{900}{100} = 51\%$$

:. Selling price =
$$5000 - 5000 \times \frac{51}{100}$$

= $5000 - 2550$

Thus, maximum selling price is ₹ 2450.

IV. True

17. I. False II. False

III. True

V. False

11. 4.5 IV. 1000

V. 199.5