

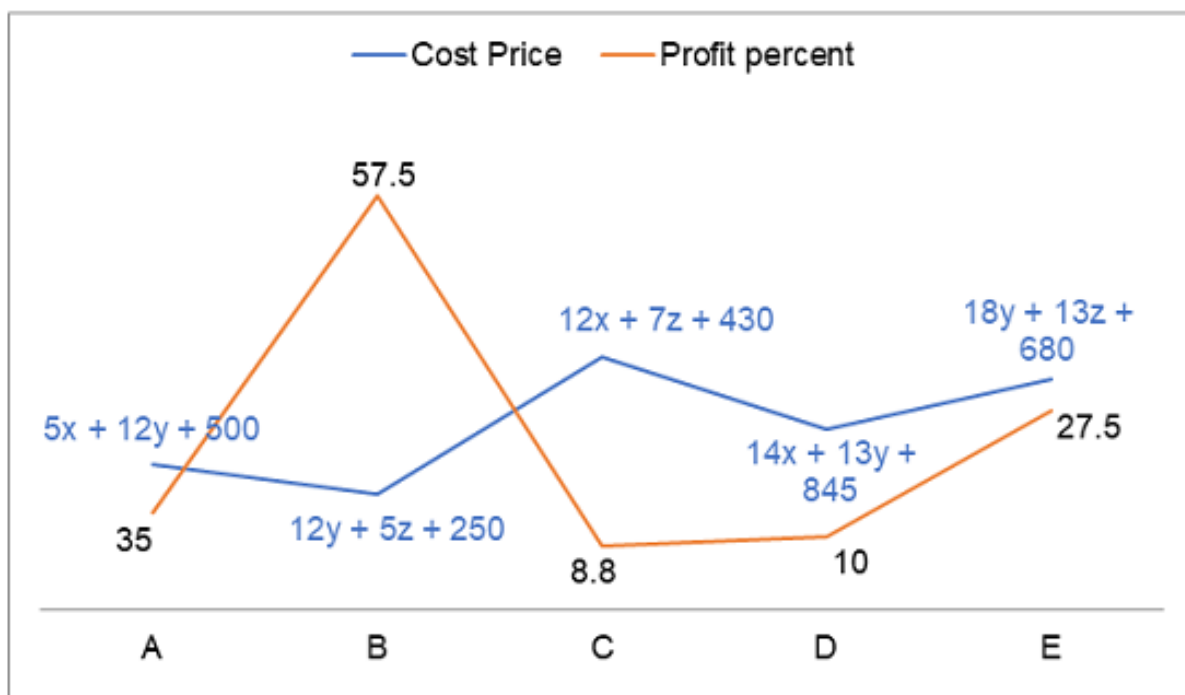
## Expected DI & Caselet Questions Based on Profit and Loss for Upcoming mains Exam

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### DI & CASELETS BASED ON PROFIT & LOSS

**Directions (1 – 4):** Answer the questions based on the information given below.

The line graph given below shows the cost price of five different articles and profit percent earned by selling the articles.



Added Information:

- Cost price of article A and article C together is Rs. 4500.
- Cost price of article B and article D together is Rs. 5100.
- Cost price of article A and article E together is Rs. Rs. 5200.
- Shopkeeper sold article D after giving two successive discounts such that the difference between the two successive discount percents is 0.5% and the marked price of the article is Rs. 5000. Find the marked price of another article whose selling price is Rs. 1750 and it is sold at higher of these discounts.
  - Rs. 2500
  - Rs. 2400
  - Rs. 2000

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- d) Rs. 2750
- e) None of these
2. Shopkeeper gave two successive discounts of  $X\%$  and  $P\%$  on article C. Find the ratio of value of P to value of X if the marked price of article C is Rs. 4000 and value of X = 15.
- a) 5:4
- b) 5:2
- c) 5:6
- d) 4:5
- e) None of these
3. Shopkeeper marked article A for Rs. 4500 and sold it after two successive discounts and the sum of the two successive discount percents is 45%. Find the difference between the two successive discount percents offered.
- a) 10%
- b) 15%
- c) 12%
- d) 6.5%
- e) None of these
4. Shopkeeper sold article B and article E after two successive discounts and marked price of article E is Rs. 2500 more than marked price of article B and total marked price of both the articles is Rs. 9500. If one of the discounts offered on article B and E is 20% and 15%, respectively then find the sum of another discount percents offered on both articles together.
- a) 25%
- b) 40%
- c) 35%
- d) 30%
- e) None of these

**Directions (5 – 9): Study the following information carefully to answer the questions that follow:**

Four shopkeepers John, Johnny, Jimmy and Jack buy air conditioners (ACs) from the same wholesaler at the same rate. However, this time Jack managed to get a discount

of 5% from the wholesaler and got the ACs at the rate of Rs. 28,500 per AC. By selling the ACs, John earns a profit of 15% while Johnny earns a profit of 18%. Jimmy marked the price 20% more than the cost price and offered a discount of 10% while Jack marked the price

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25% more than the cost price and offered two successive discounts of 10% each.

5. On a particular day, John sold 5 ACs and Jimmy sold 9 ACs. What is the difference between the net profit earned by John and Jimmy on that day?

- a) 600
- b) 800
- c) 900
- d) 700
- e) None of these

6. What is the difference between the profit percent earned by Johny and Jimmy?

- a) 10%
- b) 5%
- c) 8%
- d) 15%
- e) None of these

7. If you plan to purchase an air conditioner, you will get the best deal from which of the shopkeepers?

- a) John
- b) Johny
- c) Jimmy
- d) Jack
- e) None of these

8. If Jimmy sells three ACs on a particular day, how much profit did he earn that day?

- a) Rs. 7,900
- b) Rs. 7,200
- c) Rs. 8,500
- d) Rs. 7,800
- e) None of these

9. Which shopkeeper will earn the highest profit % on a day if all of them sell 10 ACs each on that day?

- a) John
- b) Johny
- c) Jimmy
- d) Jack
- e) None of these

**Directions (10 – 14):** Given table shows the data of price (cost/marked/selling) or percentage (mark-up/discount/profit) of three articles i.e. pen, pencil & box. Data given in integral form is particular price of the article while data in percentage form is percentage as mentioned. Some data are missing which you have to calculate as per the information provided in the question.

NOTE: If value (%) is mentioned in Marked Price then it is percentage by which the article is marked above its cost price. If value (%) is mentioned in Selling Price then it is discount percentage given on the article. If value (%) is mentioned in Cost Price then it is profit percentage earned on the article with reference to cost price (not selling price).

Read the data carefully & answer the questions.

(All prices in Rs.)

Article	Cost Price	Marked Price	Selling Price
Pen	20	---	16 2/3%
Pencil	20%	15	---
Box	---	25%	70

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10. If marked price of box is 300% more than cost price of pen then find cost price of box.

- a) Rs 62
- b) Rs 68
- c) Rs 60
- d) Rs 64
- e) Rs 66

11. What will be the increase in profit/loss percentage if pen is sold at marked price (without offering any discount)? Ratio of selling price of pen to that of box is 5 : 14.

- a) 100%
- b) 50%
- c) 25%
- d) 150%
- e) 300%

12. What is ratio of cost price of pen to that of pencil if selling price of pencil is 20% of cost price of box and profit percentage of box is same as discount percentage of pen?

- a) None of these
- b) 2 : 3
- c) 2 : 1

d) 4 : 3

e) 5 : 6

13. The cost price of pen, pencil & box is in ratio 2 : 1 : 6 respectively while marked price is in ratio 2 : 1 : 5 respectively. What is ratio of selling price of all three articles (in order used in question).

- a) 12 : 15 : 14
- b) 25 : 12 : 70
- c) Cannot be determined
- d) None of these
- e) 6 : 3 : 16

14. A child purchased a box and 5 pen & some pencils for the purpose of gifting to his friend. In this transaction, the shopkeeper earned a profit of  $21\frac{3}{7}\%$ . A discount of Rs 5 is given on each pen & box. 20% discount is given on pencil. Find number of pencils purchased. (consider price given of box is of empty box)

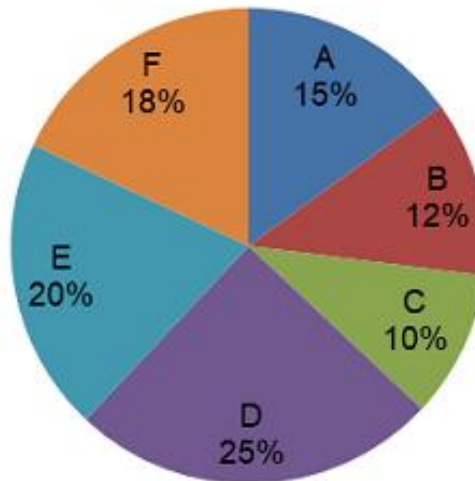
- a) 4
- b) 7
- c) 6
- d) Cannot be determined
- e) 5

**Directions (15 – 17): Answer the questions based on the information given below.**

The pie chart given below shows the percentage distribution of the cost price of six different items as total cost price of all the six articles together sold by a shopkeeper.

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Percentage distribution of the cost price



15. If the ratio of the selling price of item B to item F is 3:4, and item B is sold at 35% profit, then find the profit percentage earned by the shopkeeper on item F.

- a) 25%
- b) 20%
- c) 18%
- d) 30%
- e) 12%

16. If the marked price of item B is Rs. 4140 and it is sold at 15% profit, then find the cost price of item A provided the discount given on item B is 20%.

- a) Rs. 2450
- b) Rs. 2880
- c) Rs. 3600
- d) Rs. 3240
- e) None of these

17. If the difference between the cost price of item C and E is Rs. 540 and profit earned on item C and E is 20% and 10% respectively, find the difference between the marked price of both items, if the discount given on both items is 20% each.

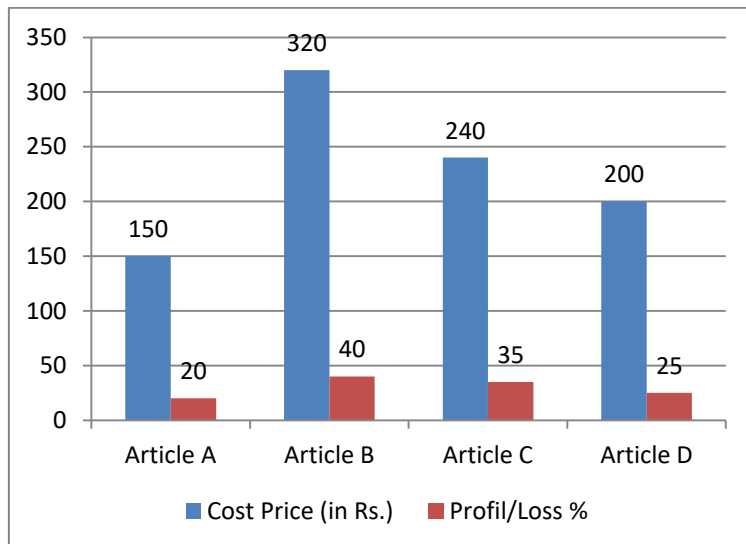
- a) Rs. 675
- b) Rs. 525

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- c) Rs. 450
- d) Rs. 725
- e) None of these

**Directions (18 – 22): Study the following bar graph carefully and answer the following questions.**

A shopkeeper sells four articles A, B, C and D. The Bar graph shows the Cost price (In Rs.) of the articles and Profit/loss percentage realized by the shopkeeper while selling these articles.



18. Find the total amount received and the gross profit/loss to the shopkeeper if he has sold article C and D at loss and article A and B at profit.

- a) Rs. 886 and 2.56% loss
- b) Rs. 934 and 2.63% profit
- c) Rs. 846 and 7.03% loss
- d) Rs. 974 and 7.03% profit
- e) None of these

19. If 35 units of the article A are sold at loss and 48 units of article C are sold at profit then find the overall profit/loss percentage.

- a) 15.09%

- b) 18.47%

- c) 19.84%

- d) 17.78%

- e) None of these

20. If the selling price of article A is 72% of the selling price of article D then which of the following is correct?

- a) A is sold at profit and D is sold at loss.
- b) Both A and D are sold at loss.
- c) A is sold at loss and D is sold at profit.
- d) Both A and D are sold at profit.
- e) None of these.

21. If the article B is first sold at loss to one customer at Rs. X and then at profit to another customer at Rs. Y, then find by how much percent Y is greater than X.

- a) 233.33%
- b) 57.14%

- c) 133.33%

- d) 33.33%

- e) None of these

22. If Article C is sold at loss and its marked price is Rs. 264, then find the difference between percentage discount and percentage markup of the article.

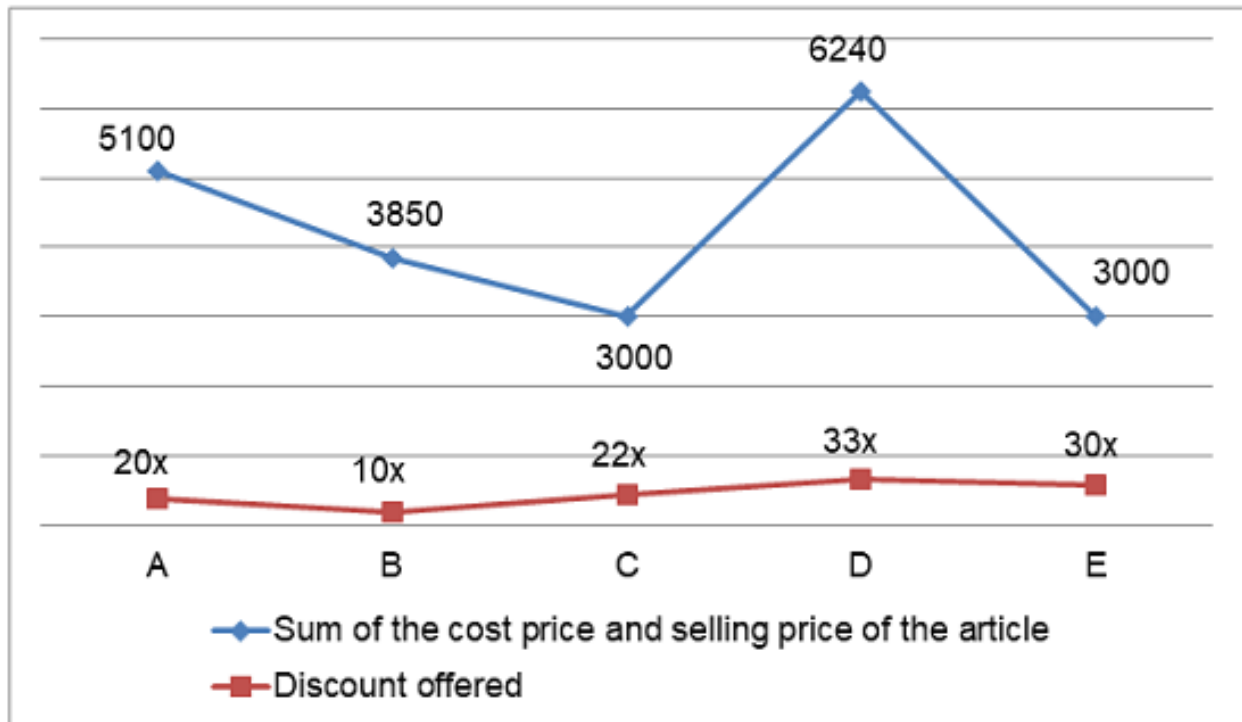
- a) 28.4%
- b) 36.5%
- c) 25%
- d) 40.9%
- e) 30.9%

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**Directions (23 – 27):** Answer the questions based on the information given below.

The given line graph shows the sum of the cost price and selling price, and the discount offered on five different articles.

The sum of the discounts offered on all these articles is Rs. 2300.



23. The selling price of article 'A' is Rs. 100 more than its cost price. If the article 'A' had been marked up by 20% less amount than the original, then how much discount should be offered on the article so that there is a profit of 14%.

- a) Rs. 80
- b) Rs. 50
- c) Rs. 75
- d) Rs. 60
- e) Rs. 40

24. The selling price of article 'C' is Rs. 200 less than its cost price. If the cost price of the article 'C' had been 25% more and the amount by which article C has been marked up is 15% more than the original, then find the profit/loss percent if the discount offered on the article remained the same.

- a) 9.6%
- b) 7.4%
- c) 8.2%
- d) 6.25%



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e) 5.8%

25. The cost price of the article 'F' is 2.5 times the discount offered on article 'D'. The sum of the selling price and cost price of article 'F' is equal to that of 'E'. If the discount offered on article 'F' is 25% of the sum of the selling price and cost price of article 'B', then find the amount by which article 'F' is marked up.

a) Rs. 1080.5

b) Rs. 720

c) Rs. 740

d) Rs. 612.5

e) Rs. 662.5

26. The profit earned on article 'D' is Rs. 240. If the discount offered on article D had been Rs. 390 less then what should be the cost price of the article so that the percentage by which article is marked up above its cost price and the selling price remain the same.

a) Rs. 2700

b) Rs. 2500

c) Rs. 3100

d) Rs. 2800

e) Rs. 2400

27. If the article 'B' has been marked up by 20% and then same discount is offered on it then the sum of the selling price and cost price decreases by Rs. 90. Find the percentage by which the article was marked up above its cost price originally.

a) 40%

b) 15%

c) 20%

d) 25%

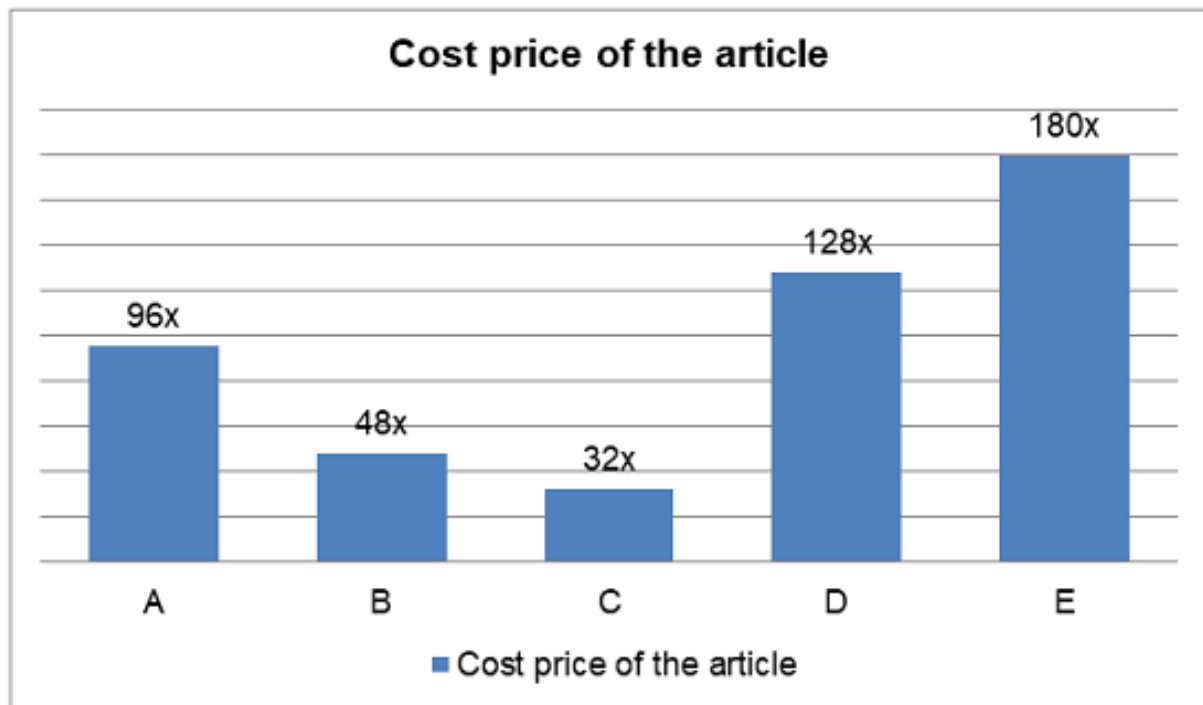
e) 30%

**Directions (28 – 32): Answer the questions based on the information given below.**

The given bar graph shows the cost price of five different articles. If the cost price is less than Rs. 1500, then it is marked up by 20% and if the cost price is more than Rs. 1500 then it is marked up by 25%. If the marked price of the item is less than Rs. 3500, then the discount offered is 15% and if the marked price is more than Rs. 3500 then the discount offered is 20%. The sum of the cost price of all the articles is Rs. 12100.



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28. If the cost price of the article 'D' had been 80% less then find the difference between the original selling price and the new selling price of the article.

- a) Rs. 2432.8
- b) Rs. 2642.4
- c) Rs. 2839.6
- d) Rs. 2547.2
- e) Rs. 2748.6

29. If the selling price of the article 'B' had been Rs. 680 more and the discount percentage remained the same, then find the amount by which article 'B' is marked up provided the article is sold at 75% profit.

- a) Rs. 1324
- b) Rs. 1260
- c) Rs. 1152
- d) Rs. 1458
- e) Rs. 1032

30. If the article 'A' has been marked up by 30% and same discount amount was offered on it as before, then find the difference between the new selling price and the original selling price.

- a) Rs. 135
- b) Rs. 120

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c) Rs. 180

d) Rs. 175

e) Rs. 200

31. Due to some breakage, the shopkeeper had to spent Rs. 250 on article 'C' and then marked it up above its effective cost price and provided discount, by same percentages. The new selling price is how much percent more/less than the original selling price.

a) 31.25%

b) 42.75%

c) 28.45%

d) 30.15%

e) 25.85%

32. If the article 'E' had been sold at a loss of 20%, then find the discount percentage offered on it, given the article is marked up above its cost price by the same percentage.

a) 52%

b) 24%

c) 42%

d) 36%

e) 32%

**Directions (33 – 37):** A fruit seller sells apples, bananas and oranges for five days in a week. The selling price of the fruits per kg varies daily. On Monday, he sells apples for Rs. 40 per kg, whereas banana is sold for Rs. 12 per kg and oranges for Rs. 28 per kg. On Tuesday he reduces the price of all fruits except banana by Rs. 2. On Wednesday he increases the price of apples by 5% then that on Monday, price of bananas is increased by Rs. 4 and orange price is decreased by Rs. 4 compared to Tuesday. On Thursday price of apples is reduced to Rs. 32 per kg and bananas is increased to Rs. 24 per kg, the price of orange stays the same as the previous day. On

Friday the price of apples and banana both become Rs. 30 per kg and oranges are sold for Rs. 34 per kg.

33. What is the profit percentage he gained by selling eight kg of apples, six kg oranges and seven kg bananas on Tuesday if the CP of apples, oranges and banana is Rs. 20 per kg, Rs. 12 per kg and Rs. 6 per kg?

a) 98.54%

b) 74.65%

c) 92.31%

d) 78.45%

e) None of the above

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34. How much money he earned by selling three kg of apples, five kg of oranges and ten kg of bananas on Wednesday?

- a) Rs. 426
- b) Rs. 396
- c) Rs. 400
- d) Rs. 386
- e) None of the above

35. If he sells twelve kg of apples, eighteen kg of bananas and sixteen kg of oranges on Wednesday as well on Thursday, which day will he earn more and by how much?

- a) On Wednesday by Rs. 24
- b) On Thursday by Rs. 24
- c) On Wednesday by Rs. 36
- d) On Thursday by Rs. 36
- e) None of the above

36. He sold ten kg of apples, eight kg of bananas and four kg of oranges, both on Monday and Friday each, what is the total amount he earned?

- a) Rs. 956
- b) Rs. 987
- c) Rs. 1,124
- d) Rs. 1,198
- e) None of the above

37. If the CP of apples, oranges and banana is Rs. 20 per kg, Rs. 12 per kg and Rs. 6 per kg, then on which day will he earn second highest by selling six kg apples, four kg bananas and seven kg oranges?

- a) Monday
- b) Tuesday

- c) Wednesday
- d) Thursday
- e) Friday

**Directions (38 – 39): Answer the questions based on the information given below.**

A sale is conducted by a shopkeeper where he sells three types of jacket i.e. M, N and O. The marked price of the jackets M, N, and O is 30%, 40% and 60% more than the respective cost price of the jacket. The ratio of the cost price of jacket M, N and O is 6:8:5 respectively and the discount given on the marked price of jacket M, N and O is 15%, 20% and 30% respectively.

38. If a girl purchased a jacket M and two jacket O, the total profit earned by the shopkeeper is Rs. 366, find the cost price of a jacket O.

- a) Rs. 1800
- b) Rs. 1600
- c) Rs. 1200
- d) Rs. 1000
- e) Rs. 1400

39. If the marked price of jacket N is Rs. 850 more than the marked price of jacket M, then find the selling price of jacket O.

- a) Rs. 1240
- b) Rs. 1400
- c) Rs. 1350
- d) Rs. 1620
- e) None of these

**Direction (40 – 44): Study the table carefully and answer the following question:-**

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In Spencers Lucknow, there was season sale. Cost price, selling price, discount and marked price is given. Read the information given and answer the question accordingly:-

Profit	Cost Price	Marked Price	Discount	
			I	II
I	.....	500	15%	10%
II	300	.....	20%	15%
III	.....	400	15%	15%
IV	.....	400	10%	8%
V	300	500	10%	10%

If a person bought more than 5 quantities of same article there was a successive discount of 10%

[You can use data calculated in previous question to answer the following question]

40. What could have been the cost price of article I. If profit earned by Spencers was 20% after giving two given successive discounts. [No G.S.T. Paid]

- a) Rs. 318.75
- b) Rs. 420
- c) Rs. 290
- d) Rs. 305
- e) Rs. 280

41. What should be the marked price of article II to earn a profit of 20% after giving the discounts (nearest to rupee). [No G.S.T.]

- a) Rs. 500
- b) Rs. 490
- c) Rs. 530
- d) Rs. 480

e) Rs. 550

42. If a person bought 7 quantities of article II and 6 quantities article III. What was his billing amount, if GST paid was 12% (Nearest of Rupees)?

- a) Rs. 4000
- b) Rs. 4296
- c) Rs. 4444
- d) Rs. 4500
- e) Rs. 4250

43. If Yash bought 4 quantities of article IV and 6 quantities of article V from the Spencers and sold them to Shubham at M.P. (Without any discount). Find his profit percentage on overall transaction? [No GST is paid]

- a) 35%
- b) 42%
- c) 32%
- d) 38%
- e) None of these

44. Find the Cost price of article IV, if Spencers earned a profit of 25% on selling it (Nearest to Rupee) [NO G.S.T. Paid]

- a) Rs. 300
- b) Rs. 265
- c) Rs. 305
- d) Rs. 285
- e) Rs. 350

**Directions (45 – 46): An article listed at Rs. 800 is sold at successive discount of 25% and 15%. The buyer desires to sell it at a profit of 20% after allowing a 10% discount.**

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Item	Cost Price (in Rs.)	Marked Price (in Rs.)	% discount	% Profit	Selling Price (in Rs.)
A	—	—	10%	—	180
B	—	—	10%	—	—
C	110	—	5%	29(6/11)%	—
D	300	400	—	—	340
E	—	500	—	—	—

45. What will be the difference between discount of 40% on the list price (Calculated in the previous question) and the two successive discounts of 25% and 15% on the same price?

- a) Rs. 75
- b) Rs. 60
- c) Rs. 80
- d) Rs. 25.5
- e) Rs. 47

46. What would be the list price of the item sold by buyer?

- a) 620
- b) 600
- c) 640
- d) 660
- e) 680

**Directions (47 – 50):** In the table below data related to five items A,B,C,D and E are given. Cost Price(in Rupees), Marked Price(in Rupees), Selling Price(in Rupees) , Discount percentage and Profit percentage of some items are given. Some values are missing in the table. Find the values on the basis of given information and answer accordingly.

47. If the marked price of item B is Rs 100 more than the marked price of item A. Then find the Selling price of item B.

- A) Rs 250
- B) Rs 270
- C) RS 300
- D) Rs 280
- E) Cannot be determined

48. The cost price of item A is how much less than its marked price(in Rupees) if the profit % after selling item A is double the % discount offered on Item A.

- A) Rs 60
- B) Rs 55
- C) Rs 45
- D) Rs 40
- E) Rs 50

49. Find the difference between Marked Price and Selling Price of item C.

- A) Rs 7.5
- B) Rs 8
- C) Rs 10
- D) Rs 50
- E) Rs 5

50. Find the profit % of item E if the % discount of item E = % discount of item C and the Cost Price of E is 1.5 times the cost price of Item D.

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- A) 5%  
B) 6%  
C) 5(5/9)%

- D) 6(1/3) %  
E) None of these

### Detailed Explanations

#### (1 – 4): Common Explanation:

$$5x + 12y + 500 + 12x + 7z + 430 = 4500$$

$$17x + 12y + 7z =$$

$$3570 \dots \dots \dots (1)$$

$$12y + 5z + 250 + 14x + 13y + 845 = 5100$$

$$14x + 25y + 5z =$$

$$4005 \dots \dots \dots (2)$$

$$5x + 12y + 500 + 18y + 13z + 680 = 5200$$

$$5x + 30y + 13z =$$

$$4020 \dots \dots \dots (3)$$

Solving equations (1), (2) and (3), we get

$$x = 120, y = 75 \text{ and } z = 90$$

$$\text{Cost price of article A} = 5 \times 120 + 12 \times 75 + 500 = \text{Rs. } 2000$$

$$\text{Cost price of article B} = 12 \times 75 + 5 \times 90 + 250 = \text{Rs. } 1600$$

$$\text{Cost price of article C} = 12 \times 120 + 7 \times 90 + 430 = \text{Rs. } 2500$$

$$\text{Cost price of article D} = 14 \times 120 + 13 \times 75 + 845 = \text{Rs. } 3500$$

$$\text{Cost price of article E} = 18 \times 75 + 13 \times 90 + 680 = \text{Rs. } 3200$$

Articles	Cost Price	Selling Price
A	2000	$1.35 \times 2000 = 2700$
B	1600	$1.575 \times 1600 = 2520$

C	2500	$1.088 \times 2500 = 2720$
D	3500	$1.1 \times 3500 = 3850$
E	3200	$1.275 \times 3200 = 4080$

1. Answer: C)

Let one of the discount is  $x\%$  and another discount is  $(x - 0.5)\%$

According to question,

$$5000 \times (100 - x)/100 \times \{100 - (x - 0.5)\}/100 = 3850$$

$$(100 - x) \times (100.5 - x) = 3850/0.5$$

$$(100 - x) \times (100.5 - x) = 7700$$

$$10050 - 100.5x + x^2 - 100x = 7700$$

$$x^2 - 200.5x + 2350 = 0$$

$$x = 188 \text{ or } x = 12.5$$

Since, discount cannot be more than 100% so,  $x = 12.5\%$ .

$$\text{Desired marked price} = 1750/0.875 = \text{Rs. } 2000$$

2. Answer: E)

According to question,

$$4000 \times (100 - 15)/100 \times (100 - P)/100 = 2720$$

$$0.4 \times 85 \times (100 - P) = 2720$$

$$100 - P = 80$$

$$P = 20$$

$$\text{Desired ratio} = 20:15 = 4:3$$

3. Answer: E)



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Let one of the discount is P%.

Another discount =  $(45 - P)\%$

According to question,

$$4500 \times (100 - P)/100 \times \{100 - (45 - P)\}/100 = 2700$$

$$0.45 \times (100 - P) \times (55 + P) = 2700$$

$$(100 - P) \times (55 + P) = 6000$$

$$5500 - 55P - P^2 + 100P = 6000$$

$$P^2 - 45P + 500 = 0$$

$$P = 25 \text{ or } P = 20$$

$$\text{So, desired difference} = 25 - 20 = 5$$

4. Answer: D)

$$\text{Marked price of article B} = (9500 - 2500)/2 = \text{Rs. } 3500$$

$$\text{Marked price of article A} = 9500 - 3500 = \text{Rs. } 6000$$

Let another discount offered on article B and E is R% and S% respectively.

According to question,

$$3500 \times (100 - 20)/100 \times (100 - R)/100 = 2520$$

$$0.35 \times 80 \times (100 - R) = 2520$$

$$100 - R = 90$$

$$R = 10\%$$

$$\text{And, } 6000 \times (100 - 15)/100 \times (100 - S)/100 = 4080$$

$$0.6 \times 85 \times (100 - S) = 4080$$

$$100 - S = 80$$

$$S = 20\%$$

$$\text{Desired answer} = 10\% + 20\% = 30\%$$

5. Answer: C)

$$\begin{aligned} \text{Profit earned by John by selling one AC} &= \text{Rs. } 34,500 - \\ &\text{Rs. } 30,000 = \text{Rs. } 4,500 \end{aligned}$$

$$\begin{aligned} \text{Profit earned by John by selling 5 ACs} &= \text{Rs. } 4,500 \times 4 = \\ &\text{Rs. } 22,500 \end{aligned}$$

$$\begin{aligned} \text{Profit earned by Jimmy by selling one AC} &= \text{Rs. } 32,400 \\ &- \text{Rs. } 30,000 = \text{Rs. } 2,400 \end{aligned}$$

$$\begin{aligned} \text{Profit earned by Jimmy by selling 9 ACs} &= \text{Rs. } 2,400 \times 9 \\ &= \text{Rs. } 21,600 \end{aligned}$$

$$\therefore \text{Required difference} = \text{Rs. } 22,500 - \text{Rs. } 21,600 = \text{Rs. } 900$$

6. Answer: A)

$$\text{Cost price for Jack} = \text{Rs. } 28,500$$

$$\begin{aligned} \therefore \text{CP for John, Johny and Jimmy} &= \text{Rs. } 28,500 \times 100/95 \\ &= \text{Rs. } 30,000 \text{ (Since Jack got 5\% discount)} \end{aligned}$$

**For Johny,**

$$\text{Profit} = 18\% \text{ (given)}$$

**For Jimmy,**

$$\text{Cost Price} = \text{Rs. } 30000$$

$$\text{MP} = 30,000 \times 120/100 = 36,000.$$

$$\text{SP} = 36,000 \times 90/100 = \text{Rs. } 32,400.$$

$$\text{Profit \%} = [(32400 - 30000)/30000] \times 100 = 8\%$$

$$\therefore \text{Required difference} = (18 - 8)\% = 10\%$$

7. Answer: D)

$$\text{Cost price for Jack} = \text{Rs. } 28,500$$

$$\begin{aligned} \therefore \text{CP for John, Johny and Jimmy} &= \text{Rs. } 28,500 \times 100/95 \\ &= \text{Rs. } 30,000 \text{ (Since Jack got 5\% discount)} \end{aligned}$$

**For John,**

$$\text{Cost Price} = \text{Rs. } 30000$$

$$\text{Profit \%} = 15\%$$

$$\text{Selling Price} = 30000 \times (115/100) = \text{Rs. } 34500$$

**For Johny,**

$$\text{Cost price} = \text{Rs. } 30000$$

$$\text{Profit \%} = 18\%$$

$$\text{Selling price} = 30000 \times (118/100) = \text{Rs. } 35400$$

**For Jimmy,**



## Expected DI & Caselet Questions Based on Profit and Loss for Upcoming mains Exam

Cost price = Rs. 30000

Profit % =  $[(32400 - 30000)/30000] \times 100 = 8\%$

Marked price =  $30000 \times (120/100) = \text{Rs. } 36000$

Discount% = 2 successive discounts of 10% each

Selling price =  $36000 \times (90/100) \times (90/100) = 32400$

**For Jack,**

Cost price = Rs. 28500

Profit % =  $[(28856.25 - 28500)/28500] \times 100 = 1.25\%$

Marked price =  $28500 \times (125/100) = \text{Rs. } 35625$

Discount% = 10%

Selling price =  $35625 \times (90/100) = 28856.25$

Hence, we can get the best deal from **Jack**.

8. Answer: B)

**For Jimmy,**

Cost price = Rs. 30000

Profit % =  $[(32400 - 30000)/30000] \times 100 = 8\%$

Marked price =  $30000 \times (120/100) = \text{Rs. } 36000$

Discount % = 2 successive discounts of 10% each

Selling price =  $36000 \times (90/100) \times (90/100) = 32400$

Profit = Rs. 32,400 - Rs. 30,000 = 2,400

$\therefore$  Profit for three ACs = Rs. 2,400  $\times$  3 = **Rs. 7200**

9. Answer: B)

John's profit % = 15% (given)

Johnny's profit % = 18% (given)

Jimmy's profit % =  $(32400 - 30000)/30000 \times 100 = 8\%$

Jack's profit =  $(28,856.25 - 28500)/28500 \times 100 =$

1.25% (approx.)

Hence, **Johnny** earned the highest profit%.

**Note: Since % profit is asked, answer will be the same for any number of ACs.**

10. Answer: D)

$$\text{MP (box)} = \frac{400}{100} \times 20 = \text{Rs } 80$$

$$\text{CP (box)} = \frac{100}{125} \times 80 = \text{Rs } 64$$

11. Answer: A)

$$\text{selling price of pen} = \frac{5}{14} \times 70 = \text{Rs } 25$$

$$\text{MP (pen)} = \frac{6}{5} \times 25 = \text{Rs } 30$$

$$\text{Actual profit\%} = \frac{25-20}{20} \times 100 = 25\%$$

$$\text{New profit \% (when sold at MP)} = \frac{30-20}{20} \times 100 = 50\%$$

$$\text{Required \%} = \frac{50-25}{25} \times 100 = 100\%$$

12. Answer: C)

$$\text{profit \% (box)} = 16\frac{2}{3}\% = 1/6$$

$$\text{CP (box)} = \frac{6}{7} \times 70 = \text{Rs } 60$$

$$\text{SP (pencil)} = \frac{20}{100} \times 60 = \text{Rs } 12$$

$$\text{CP (pencil)} = \frac{100}{120} \times 12 = \text{Rs } 10$$

$$\text{Required ratio} = 20 : 10 = 2 : 1$$

13. Answer: B)

$$\text{CP (pencil)} = \frac{1}{2} \times 20 = \text{Rs } 10$$

$$\text{CP (box)} = \frac{6}{2} \times 20 = \text{Rs } 60$$

$$\text{MP (pen)} = \frac{2}{1} \times 15 = \text{Rs } 30$$

$$\text{SP (pen)} = \frac{5}{6} \times 30 = \text{Rs } 25$$

$$\text{SP (pencil)} = \frac{120}{100} \times 10 = \text{Rs } 12$$

$$\text{Required ratio} = 25 : 12 : 70$$

14. Answer: E)

$$\text{MP (box)} = 70 + 5 = \text{Rs } 75$$

$$\text{CP (box)} = \frac{100}{125} \times 75 = \text{Rs } 60$$

$$\text{SP (pen)} = \frac{5}{1} \times 5 = \text{Rs } 25$$

$$\text{SP (pencil)} = \frac{80}{100} \times 15 = \text{Rs } 12$$

$$\text{CP (pencil)} = \frac{100}{120} \times 12 = \text{Rs } 10$$

$$\text{Let pencils purchased be 'x'}$$

$$\text{Total CP} = 10x + 100 + 60 = \text{Rs } (160 + 10x)$$

$$\text{Total SP} = 125 + 12x + 70 = \text{Rs } (195 + 12x)$$

$$\text{ATQ, } \frac{195+12x-160-10x}{160+10x} \times 100 = \frac{150}{7}$$

$$x = 5$$

$$\text{pencils purchased} = 5$$

## Expected DI & Caselet Questions Based on Profit and Loss for Upcoming mains Exam

15. Answer: B)

Let the total cost price of all the items = Rs.  $x$

Profit percentage on item F =  $a\%$

According to the question,

$$(x \times 12\% \times 135\%):[x \times 18 \times (100 + a)\%] = 3:4$$

$$120 = 100 + a$$

$$a = 20\%$$

16. Answer: C)

Marked price of item B = Rs. 4140

Cost price of item B =  $4140 \times 80\% \times 100/115 = \text{Rs. } 2880$

Cost price of item A =  $2880/12 \times 15 = \text{Rs. } 3600$

17. Answer: A)

Let the total cost price of the items = Rs.  $x$

According to the question,

$$x \times 20\% - x \times 10\% = 540$$

$$x = \text{Rs. } 5400$$

Cost price of item C =  $5400 \times 10\% = \text{Rs. } 540$

Cost price of item E =  $5400 \times 20\% = \text{Rs. } 1080$

$$\begin{aligned} \text{Required difference} &= 1080 \times 110\% \times 100/80 - 540 \times \\ &120\% \times 100/80 \end{aligned}$$

$$= 1485 - 810$$

$$= \text{Rs. } 675$$

18. Answer: B)

Since articles A and B are sold at profit;

Amount received while selling article A =  $150 \times 1.2 = \text{Rs. } 180$

Amount received while selling article B =  $320 \times 1.4 = \text{Rs. } 448$

Since articles C and D are sold at loss;

Amount received while selling article C =  $240 \times 0.65 = \text{Rs. } 156$

Amount received while selling article D =  $200 \times 0.75 = \text{Rs. } 150$

$\therefore$  Total amount received =  $180 + 448 + 156 + 150 = \text{Rs. } 934$

Since Total cost price of all the articles =  $150 + 320 + 240 + 200 = \text{Rs. } 910$

$\therefore$  Gross profit percentage =  $(934 - 910)/910 = 2.63\%$

19. Answer: D)

Total cost price of 35 units of article A and 48 units of article C =  $150 \times 35 + 240 \times 48 = \text{Rs. } 16770$

Since article A is sold at loss;

$\therefore$  Selling price of A =  $150 \times 0.8 = \text{Rs. } 120$

Since article C is sold at profit;

$\therefore$  Selling price of C =  $240 \times 1.35 = \text{Rs. } 324$

Total selling price of 35 number of article A and 48

number of article C =  $120 \times 35 + 324 \times 48 = \text{Rs. } 19752$

$\therefore$  Overall profit percentage =  $(19752 - 16770)/16770 = 17.78\%$

20. Answer: D)

We have to solve this question with hit and trial method;

Checking with option 4;

If both A and D are sold at profit;

Selling price of A =  $150 \times 1.2 = \text{Rs. } 180$

And selling price of D =  $200 \times 1.25 = \text{Rs. } 250$

Required percentage =  $(180/250) \times 100 = 72\%$

$\therefore$  Option 4 satisfies the given statement

21. Answer: C)

Cost Price of article B = Rs 320 and Profit/loss percentage = 40%

## Expected DI & Caselet Questions Based on Profit and Loss for Upcoming mains Exam

When sold at loss;

$$\therefore X = 320 \times 0.6 = \text{Rs. } 192$$

When sold at profit;

$$\therefore Y = 320 \times 1.4 = \text{Rs. } 448$$

$$\therefore \text{Required percentage} = (448 - 192)/192 = 133.33\%$$

$$\therefore Y \text{ is } 133.33\% \text{ more than } X$$

22. Answer: E)

Since Article C is sold at loss of 35% and Cost price is Rs. 240;

$$\therefore \text{Selling price of article C} = 240 \times 0.65 = \text{Rs. } 156$$

Given the marked price of article C = Rs. 264

$$\therefore \text{Percentage discount} = (264 - 156)/264 = 40.9\%$$

From the bar graph: Cost price of article C = Rs. 240 and marked price is Rs. 264;

$$\therefore \text{Percentage markup} = (264 - 240)/240 = 10\%$$

$$\therefore \text{Difference between percentage discount and percentage markup of the article} = 40.9 - 10 = 30.9\%$$

**(23 – 27): Common Explanation:**

$$20x + 10x + 22x + 33x + 30x = 2300$$

$$\text{Or, } 115x = 2300$$

$$\text{Or, } x = 20$$

	Discount offered (in Rs.)
A	$20x = 400$
B	$10x = 200$
C	$22x = 440$
D	$33x = 660$
E	$30x = 600$

Let the cost price of the article be Rs. x

Therefore, selling price of the article = Rs. (x + 100)

According to the question,

$$(x + x + 100) = 5100$$

$$\text{Or, } 2x = 5000$$

$$\text{Or, } x = \text{Rs. } 2500$$

Therefore, cost price of the article = Rs. 2500

Selling price of the article = (2500 + 100) = Rs. 2600

Therefore, marked price of the article 'A' = (2600 + 400) = Rs. 3000

Amount by which article 'A' is marked up = (3000 – 2500) = Rs. 500

23. Answer: B)

According to the question,

New amount by which article 'A' is marked up =  $0.8 \times 500 = \text{Rs. } 400$

New marked price of the article =  $2500 + 400 = \text{Rs. } 2900$

New selling price =  $1.14 \times 2500 = \text{Rs. } 2850$

Required discount =  $2900 - 2850 = \text{Rs. } 50$

24. Answer: C)

According to the question,

New cost price of the article =  $1.25 \times 1600 = \text{Rs. } 2000$

New amount by which the article is marked up =  $1.15 \times 240 = \text{Rs. } 276$

New marked price of the article =  $2000 + 276 = \text{Rs. } 2276$

New selling price =  $2276 - 440 = \text{Rs. } 1836$

Required loss percentage =  $\{(2000 - 1836)/2000\} \times 100 = 8.2\%$

25. Answer: E)

Cost price of article 'F' =  $2.5 \times 660 = \text{Rs. } 1650$

Selling price of article 'F' =  $3000 - 1650 = \text{Rs. } 1350$

Discount offered on the article =  $0.25 \times 3850 = \text{Rs. } 962.5$

Therefore, marked price of the article =  $1350 + 962.5 = \text{Rs. } 2312.5$

## Expected DI & Caselet Questions Based on Profit and Loss for Upcoming mains Exam

Amount by which article 'F' is marked up =  $2312.5 - 1650 = \text{Rs. } 662.5$

26. Answer: A)

Let the cost price of article 'D' be Rs.  $x$

Therefore, selling price of the article =  $(x + 240)$

According to the question,

$$(x + 240 + x) = 6240$$

$$\text{Or, } 2x = 6000$$

$$\text{Or, } x = 6000/2 = \text{Rs. } 3000$$

Therefore, cost price of the article = Rs. 3000

Selling price of the article =  $3000 + 240 = \text{Rs. } 3240$

Marked price of the article =  $3240 + 660 = \text{Rs. } 3900$

Percentage by which the article is marked above its cost price =  $\{(3900 - 3000)/3000\} \times 100 = 30\%$

According to the question,

$$\text{New discount} = 660 - 390 = \text{Rs. } 270$$

$$\text{New marked price} = 3240 + 270 = \text{Rs. } 3510$$

$$\text{Required cost price} = 3510/1.3 = \text{Rs. } 2700$$

27. Answer: D)

Let the cost price of the article be Rs.  $x$

Therefore, marked price of the article = Rs.  $1.2x$

Selling price of the article = Rs.  $(1.2x - 200)$

According to the question,

$$3850 - (x + 1.2x - 200) = 90$$

$$\text{Or, } 2.2x = 3960$$

$$\text{Or, } x = 3960/2.2 = \text{Rs. } 1800$$

Therefore, original selling price of the article =  $3850 - 1800 = \text{Rs. } 2050$

Original marked price =  $2050 + 200 = \text{Rs. } 2250$

Percentage by which article is marked up above its cost price =  $\{(2250 - 1800)/1800\} \times 100 = 25\%$

(28 – 32): Common Explanation:

According to the question,

$$96x + 48x + 32x + 128x + 180x = 12100$$

$$\text{Or, } 484x = 12100$$

$$\text{Or, } x = 12100/484 = \text{Rs. } 25$$

	Cost price of the article (in Rs.)	Marked price of the article (in Rs.)	Discount offered on the article (in Rs.)	Selling price of the article (in Rs.)
A	$96x = 2400$	$1.25 \times 2400 = 3000$	$0.15 \times 3000 = 450$	$3000 - 450 = 2550$
B	$48x = 1200$	$1.2 \times 1200 = 1440$	$0.15 \times 1440 = 216$	$1440 - 216 = 1224$
C	$32x = 800$	$1.2 \times 800 = 960$	$0.15 \times 960 = 144$	$960 - 144 = 816$
D	$128x = 3200$	$1.25 \times 3200 = 4000$	$0.2 \times 4000 = 800$	$4000 - 800 = 3200$
E	$180x = 4500$	$1.25 \times 4500 = 5625$	$0.2 \times 5625 = 1125$	$5625 - 1125 = 4500$

28. Answer: D)

New cost price of the article =  $0.2 \times 3200 = \text{Rs. } 640$

Therefore, marked price of the article =  $1.2 \times 640 = \text{Rs. } 768$

New selling price of the article =  $0.85 \times 768 = \text{Rs. } 652.8$

Required difference =  $3200 - 652.8 = \text{Rs. } 2547.2$

29. Answer: C)

## Expected DI & Caselet Questions Based on Profit and Loss for Upcoming mains Exam

New selling price of article 'B' =  $1224 + 680 = \text{Rs. } 1904$

New marked price of the article 'B' =  $1904/0.85 = \text{Rs. } 2240$

New cost price of the article 'B' =  $1904/1.75 = \text{Rs. } 1088$

Amount by which article 'B' is marked up =  $2240 - 1088 = \text{Rs. } 1152$

30. Answer: B)

New marked price of the article 'A' =  $1.3 \times 2400 = \text{Rs. } 3120$

New selling price =  $3120 - 450 = \text{Rs. } 2670$

Required difference =  $2670 - 2550 = \text{Rs. } 120$

31. Answer: A)

New cost price of the article =  $\text{Rs. } (800 + 250) = \text{Rs. } 1050$

New marked price =  $1.2 \times 1050 = \text{Rs. } 1260$

New selling price =  $0.85 \times 1260 = \text{Rs. } 1071$

Required percentage change =  $\{(1071 - 816)/816\} \times 100 = 31.25\%$

32. Answer: D)

New selling price =  $0.8 \times 4500 = \text{Rs. } 3600$

Required discount percentage =  $\{(5625 - 3600)/5625\} \times 100 = 36\%$

### (33 – 37): Common Explanation:

First let's make a table from the given information

Price per kg	Mon	Tue	Wed	Thur	Fri
Apples	40	38	42	32	30
Banana	12	12	16	24	30
Oranges	28	26	22	22	34

33. Answer: A)

CP of apples =  $\text{Rs. } 20 \text{ per kg}$

CP of oranges =  $\text{Rs. } 12 \text{ per kg}$

CP of banana is =  $\text{Rs. } 6 \text{ per kg}$

CP of 8 kg of apples, 6 kg oranges and 7 kg bananas =  $8 \times 20 + 6 \times 12 + 7 \times 6 = \text{Rs. } 274$

On Tuesday

Apples =  $\text{Rs. } 38 \text{ per kg}$

Bananas =  $\text{Rs. } 12 \text{ per kg}$

Oranges =  $\text{Rs. } 26 \text{ per kg}$

SP 8 kg of apples, 6 kg oranges and 7 kg bananas =  $8 \times 38 + 6 \times 26 + 7 \times 12 = \text{Rs. } 544$

Profit percentage =  $[(544 - 274)/274] \times 100 = 98.54\%$

34. Answer: B)

On a Wednesday

Apples =  $\text{Rs. } 42 \text{ per kg}$

Bananas =  $\text{Rs. } 16 \text{ per kg}$

Oranges =  $\text{Rs. } 22 \text{ per kg}$

Now,

Cost of three kg of apples =  $3 \times 42 = \text{Rs. } 126$

Cost of five kg of oranges =  $5 \times 22 = \text{Rs. } 110$

Cost of ten kg of bananas =  $10 \times 16 = \text{Rs. } 160$

Thus, by selling three kg of apples, five kg of oranges and ten kg of bananas on Wednesday he earned =  $126 + 110 + 160 = \text{Rs. } 396$

35. Answer: B)

On Wednesday

Apples =  $\text{Rs. } 42 \text{ per kg}$

Bananas =  $\text{Rs. } 16 \text{ per kg}$

Oranges =  $\text{Rs. } 22 \text{ per kg}$

SP of 12 kg of apples, 18 kg of bananas and 16 kg of oranges =  $12 \times 42 + 18 \times 16 + 16 \times 22 = \text{Rs. } 1,144$



## Expected DI & Caselet Questions Based on Profit and Loss for Upcoming mains Exam

On Thursday

Apples = Rs. 32 per kg

Bananas = Rs. 24 per kg

Oranges = Rs. 22 per kg

SP of 12 kg of apples, 18 kg of bananas and 16 kg of oranges =  $12 \times 32 + 18 \times 24 + 16 \times 22 = \text{Rs. } 1,168$

Thus, he earns more on Thursday by  $1168 - 1144 = \text{Rs. } 24$

36. Answer: E)

On Monday

Apples = Rs. 40 per kg

Bananas = Rs. 12 per kg

Oranges = Rs. 28 per kg

SP of 10 kg of apples, 8 kg of bananas and 4 kg of oranges =  $10 \times 40 + 8 \times 12 + 4 \times 28 = \text{Rs. } 608$

On Friday

Apples = Rs. 30 per kg

Bananas = Rs. 30 per kg

Oranges = Rs. 34 per kg

SP of 10 kg of apples, 8 kg of bananas and 4 kg of oranges =  $10 \times 30 + 8 \times 30 + 4 \times 34 = \text{Rs. } 676$

Total =  $608 + 676 = \text{Rs. } 1,284$

37. Answer: A)

CP of apples = Rs. 20 per kg

CP of banana is = Rs. 6 per kg

CP of oranges = Rs. 12 per kg

CP of 6 kg apples, 4 kg bananas and 7 kg oranges =  $6 \times 20 + 4 \times 6 + 7 \times 12 = \text{Rs. } 228$

On Monday

SP of 6 kg apples, 4 kg bananas and 7 kg oranges =  $6 \times 40 + 4 \times 12 + 7 \times 28 = \text{Rs. } 484$

On Tuesday

SP of 6 kg apples, 4 kg bananas and 7 kg oranges =  $6 \times 38 + 4 \times 12 + 7 \times 26 = \text{Rs. } 458$

On Wednesday

SP of 6 kg apples, 4 kg bananas and 7 kg oranges =  $6 \times 42 + 4 \times 16 + 7 \times 22 = \text{Rs. } 470$

On Thursday

SP of 6 kg apples, 4 kg bananas and 7 kg oranges =  $6 \times 32 + 4 \times 24 + 7 \times 22 = \text{Rs. } 442$

On Friday

SP of 6 kg apples, 4 kg bananas and 7 kg oranges =  $6 \times 30 + 4 \times 30 + 7 \times 34 = \text{Rs. } 538$

**(38 – 39): Common Explanation:**

Let the cost price of jacket M = Rs.  $6x$

The cost price of jacket N = Rs.  $8x$

The cost price of jacket O = Rs.  $5x$

Marked price of jacket M =  $6x \times 130\% = \text{Rs. } 7.8x$

Marked price of jacket N =  $8x \times 140\% = \text{Rs. } 11.2x$

Marked price of jacket O =  $5x \times 160\% = \text{Rs. } 8x$

Selling price of jacket M =  $7.8x \times 85\% = \text{Rs. } 6.63x$

Selling price of jacket N =  $11.2x \times 80\% = \text{Rs. } 8.96x$

Selling price of jacket O =  $8x \times 70\% = \text{Rs. } 5.6x$

Profit on jacket M =  $6.63x - 6 = \text{Rs. } 0.63x$

Profit on jacket N =  $8.96x - 8x = \text{Rs. } 0.96x$

Profit on jacket O =  $5.6x - 5x = \text{Rs. } 0.6x$

38. Answer: D)

According to the question,

$$0.63 + 0.6x \times 2 = 366$$

$$0.63x + 1.2x = 366$$

$$1.83x = 366$$

$$x = 200$$

## Expected DI & Caselet Questions Based on Profit and Loss for Upcoming mains Exam

Cost price of a jacket O =  $5 \times 200 = \text{Rs. } 1000$

39. Answer: B)

According to the question,

$$11.2x - 7.8x = 850$$

$$3.4x = 850$$

$$x = 250$$

$$\text{Selling price of jacket O} = 5.6 \times 250 = \text{Rs. } 1400$$

40. Answer: A)

$$\text{Equivalent discount} = 15 + 10 - 15 \times 10/100$$

$$\text{M.P.} = 100 \text{ unit} = \text{Rs. } 500$$

$$\text{SP} = 76.5 \text{ unit} = \text{Rs. } 382.5$$

$$\text{Profit} = 20\% = 1/5$$

$$\text{S.P.} = 6 \text{ unit} = \text{Rs. } 382.5$$

$$\text{CP.} = 5 \text{ unit} = 382.5/6 \times 5$$

$$\text{Rs. } 318.75$$

41. Answer: C)

$$\text{Cost price of article II} = \text{Rs. } 300$$

$$\text{Profit \%} = 20\%$$

$$\text{Selling price of article II} = \text{Rs. } 6/5 \times 300$$

$$= \text{Rs. } 360$$

$$\text{Equivalent discount} = 20 + 15 - 20 \times 15/100$$

$$= 32\%$$

$$\text{MP} = 100 \text{ unit}$$

$$\text{S.P.} = 68 \text{ unit}$$

$$68 \text{ unit} = \text{Rs. } 360$$

$$\text{MP} = 100 \text{ unit} = \text{Rs. } 360/68 \times 100 = \text{Rs. } 530$$

42. Answer: B)

For more than 5 article additional discount was given

$$\text{Equivalent discount for article II} = 32 + 10 - 32 \times 10/100$$

$$= 38.8\%$$

$$\text{S.P.} = 61.2 \text{ unit}$$

$$\text{M.P. of quantity of article II} = 530$$

$$\text{S.P. of 1 quantity of article II} = 530/100 \times 61.2 = 324.36$$

$$\text{S. P. of 7 quantity of article II} = 7 \times 324.36 = 2270.52$$

$$\text{Equivalent discount an article III} = 27.75 + 10 - 27.75 \times$$

$$10/100 = 34.775 \%$$

$$\text{S.P} = 100 - 24.975 = 65.225$$

$$\text{M.P of 1 quantity of article III} = 400$$

$$\text{S.P. of 1 quantity of article III} = 400/100 \times 65.225 =$$

$$260.9$$

$$\text{S.P. of 6 quantity of article III} = \text{Rs. } 6 \times 260.9 = \text{Rs.}$$

$$1565$$

$$\text{Total bill} = \text{Rs. } 2270 + \text{Rs. } 1565 = \text{Rs. } 3835$$

$$\text{GST} = 12\%$$

$$\text{Final billing amount} = 3835 + 12\% \text{ of } 3835 = 3835 +$$

$$460.5 = \text{Rs. } 4295.56 \approx 4296$$

43. Answer: A)

$$\text{Equivalent discount of article IV} = 10 + 8 - 10 \times 8/100$$

$$= 17.2 \%$$

$$\text{S.P. of 1 quantity of article IV} = 82.8 \%$$

$$\text{S.P. of 1 quantity of article IV} = 400/100 \times 82.8 = \text{Rs.}$$

$$331.2$$

$$\text{S.P. of 4 quantity of article IV} = 4 \times 331.2 = \text{Rs. } 1324.8$$

$$\text{Equivalent discount of article V} = 19 + 10 - 19 \times 10/100$$

$$= 27.1 \%$$

$$\text{S.P. of 1 quantity of article V} = 500/100 \times 72.9$$

$$\text{S.P. of 1 quantity of article V} = 6 \times 364.5 = 2187$$

$$\text{Total Cost for Yash} = 1324.8 + 2187$$

$$\text{Rs. } 3512$$

He sold all the article to Shubham at marked price

$$\text{S.P.} = 4 \times 400 + 6 \times 500 = 1600 + 3000 = 4600$$

$$\text{Profit} = 4600 - 3512 = \text{Rs. } 1088$$



## Expected DI & Caselet Questions Based on Profit and Loss for Upcoming mains Exam

Profit % =  $1088/3412 \times 100 = 31\%$  (Approx)

44. Answer: B)

Equivalent Discount =  $10 + 8 - 10 \times 8 / 100 = 17.2\%$

S.P =  $100 - 17.2 = 82.8\%$

S.P. of 1 quantity of article IV =  $400 \times 82.8/100 = \text{Rs.}$

331.2 = Rs. 331

Profit =  $25\% = 1/4$

SP = 5 unit = Rs. 331

C.P. = 4 unit = Rs.  $331/5 \times 4$

Rs. = 265 (approx)

45. Answer: D)

Discount of 40% on 680 =  $680 \times 40/100 = 272$

Two successive discounts of 25% and 15% =  $25 + 15 -$

$25 \times 15/100 = 36.25\%$

On 680 =  $680 \times 36.25/100 = 246.5$

$\therefore$  The required difference =  $272 - 246.5 = \text{Rs. } 25.5$

46. Answer: E)

CP for buyer =  $800 \times (1 - 25/100) \times (1 - 15/100) = 800 \times$   
 $(75/100) \times (85/100) = \text{Rs. } 510$

$\therefore$  The buyer got the item at Rs. 510

$\therefore$  He sold it at 20% profit

SP = CP  $(1 + 20/100)$

SP =  $510 \times 120/100$

SP = Rs. 612

$\therefore$  He gave 10% discount on the item

$\therefore$  List price of the article =  $612 \times 100/90$

$\Rightarrow \text{Rs. } 680$

47. Answer: B)

MP of A =  $180 \times 100/90 = 200$

MP of B =  $200 + 100 = 300$

SP of B =  $300 \times 90/100 = \text{Rs. } 270$

48. Answer: E)

%P = 20%  $\Rightarrow$  CP = Rs 150

MP =  $180 \times 100/90 = \text{Rs. } 200$

diff =  $200 - 150 = \text{Rs. } 50$

49. Answer: A)

SP =  $110 \times [(100 + 29(6)/11)/100] = \text{Rs. } 142.5$

MP =  $142.5 \times 100/95 = \text{Rs. } 150$

Difference =  $150 - 142.5 = \text{Rs. } 7.5$

50. Answer: C)

CP(E) =  $1.5 \times 300 = \text{Rs. } 450$ ;

SP =  $500 \times 95/100 = \text{Rs. } 475$

%P =  $(475 - 450)/450 \times 100 = 50/9\% = 5(5/9)\%$

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