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Discount Questions for Railway Group-D Exams

1.	what is the effective discount (iii %) on two	() 4					
	successive discounts of 20% and 10%?						

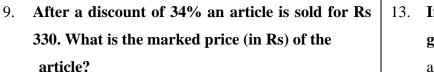
- a) 28
- b) 24
- c) 32
- d) 28
- 2. At 10% discount the selling price of an article is Rs 900, what is the selling price (in Rs) if the discount is 27.5%?
 - a) 780
 - b) 725
 - c) 800
 - d) 425
- 3. If the selling price of an item is Rs 2475 after getting a discount of 25%, then what was its marked price (in Rs)?
 - a) 3300
 - b) 1818
 - c) 1427
 - d) 1118
- 4. A shopkeeper marks up his wares by 60% and offers 10% discount. What will be the selling price (in Rs) if the cost price is Rs 22500?
 - a) 24780
 - b) 23400

- c) 43800
- d) 32400
- 5. 10 copy is offered at 10% discount and a Rs 30 book at 20% discount. If Shivam bought 1 copy and 3 books, what is the effective discount (in %) he got?
 - a) 19
 - b) 20
 - c) 17
 - d) 13
- 6. The cost price of an article is x. It is marked up by 120%. It is sold at Rs 704 after giving 20% discount. What is the value (in Rs) of x?
 - a) 570
 - b) 700
 - c) 380
 - d) 400
- 7. If 1 book are offered free on purchase of 3 book, what is the effective discount (in %) on each book?
 - a) 25
 - b) 32
 - c) 43
 - d) 28

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3.	What is the effective discount on two successive		If two successive discounts of 50% and 10% ar		
	discounts of 20% and 25%?		offered, then what is the net discount (in %)?		
	a) 35%		a) 47		
	b) 40%		b) 55		
		1			



a) 400b) 500

c) 20%

d) 50%

- c) 800
- d) 100
- 10. A shopkeeper marks up his wares by 40% and offers 25% discount. What will be the selling price (in Rs) if the cost price is Rs 1600?
 - a) 1680
 - b) 2435
 - c) 3534
 - d) 2345
- 11. If after giving a discount of 18%, a book is sold for Rs 656, then what will be the marked price (in Rs) of the book?
 - a) 700
 - b) 880
 - c) 800
 - d) 200

- 3. If two successive discounts of 20% and 30% are given, then what is the net discount (in %)?
 - a) 50

c) 34

d) 70

- b) 44
- c) 37
- d) 68
- 14. After a discount of 23% an article is sold for Rs 693. What is the marked price (in Rs) of the article?
 - a) 300
 - b) 700
 - c) 500
 - d) 900
- 15. After two successive discounts of 20% and 35%, an article is sold for Rs 1300. What is the marked price (in Rs) of the article?
 - a) 2500
 - b) 8500
 - c) 7500
 - d) 4000

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16.	A shopkeeper sells a book at a discount of 20%
	and earns a profit of 60%. If he sells the same
	book at 40% discount, then what will be his new
	profit percent?

- a) 20
- b) 50
- c) 55
- d) 30
- 17. The marked price of a chair set is Rs 2400 which is sold at Rs 1836 at two successive discounts. If the first discount is 10%, then what will be the second discount (in %)?
 - a) 17
 - b) 12
 - c) 15
 - d) 11
- 18. If the selling price of an item is Rs 5000 after getting a discount of 20%, then what was the marked price (in Rs)?
 - a) 4200
 - b) 6250
 - c) 900
 - d) 1800
- 19. A shopkeeper marks up his wares by 80% and offers 20% discount. What will be the selling price (in Rs) if the cost price is Rs 900?
 - a) 1467

- b) 1276
- c) 1598
- d) 1296
- 20. After two successive discounts of 20% and 12% an article is sold for Rs 1760. What is the marked price (in Rs) of the article?
 - a) 3200
 - b) 2300
 - c) 2000
 - d) 2500
- 21. What is the discount percentage offered on a book having marked price Rs 1075 being sold at Rs 946?
 - a) 12
 - b) 11
 - c) 18
 - d) 19
- 22. If on a Sale there is 40% discount on the marked price of Rs 250, but the sale is done at Rs 127.50 only then what additional discount (in %) did the customer get?
 - a) 30
 - b) 15
 - c) 27
 - d) 45
- 23. A shopkeeper allows 25% discount on the marked price of an article and he suffered a loss

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of	15%.	What	will	be	the	profit	percent	if	the	
article is sold at marked price?										

- a) 9.77
- b) 11.12
- c) 13.33
- d) 11.22
- 24. What will be the net discount (in %) of two successive discounts of 15% and 35%?
 - a) 44.75
 - b) 47.21
 - c) 34.29
 - d) 56.15
- 25. What will be the net discount percentage of three successive discounts of 20%, 10% and 30%?
 - a) 35.1
 - b) 49.6
 - c) 24.1
 - d) 60.4
- 26. A dealer sells a product having marked price as Rs 960 at a discount of 20%. What is the selling price (in Rs) of the product?
 - a) 768
 - b) 543
 - c) 578
 - d) 837

- 27. The marked price of a shirt is Rs 640. If the shirt is being sold for Rs 450, then what is the discount percentage?
 - a) 34.37
 - b) 35.54
 - c) 29.68
 - d) 24.38
- 28. The marked price of an mobile is 40% more than its cost price. If 15% discount is given on the marked price, then what will be the profit percentage?
 - a) 20
 - b) 17
 - c) 13
 - d) 19
- 29. A discount of 15% on a book having marked price of Rs 136 and earns a profit of 15.6%. What is the cost price (in Rs) of the book?
 - a) 100
 - b) 105
 - c) 102
 - d) 116
- 30. If on a Sale there is 30% discount on the marked price of Rs 500, but the sale is done at Rs 280 only. What additional discount (in %) did the customer get?
 - a) 14

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- b) 20
- c) 17
- d) 23
- 31. If a shopkeeper sells an item at Rs 84 which is marked as Rs 96, then what is the discount (in %) that he is offering?
 - a) 12.5
 - b) 14.21
 - c) 10.3
 - d) 11.5
- 32. If a retailer offers a discount of 25% on the marked price of his goods and thus ends up selling at cost price, what was the % mark up?
 - a) 67.57
 - b) 33.33
 - c) 43.21
 - d) 40.87
- 33. If the shopkeeper sells an item at Rs 8800 which is marked as Rs 10000, then what is the discount that he is offering?
 - a) 15%
 - b) 12%
 - c) 18%
 - d) 27%
- 34. What is the effective discount (in %) on two successive discounts of 15% and 50%?
 - a) 25.89

- b) 57.5
- c) 32.4
- d) 34.97
- 35. The cost price of an article is x. It is marked up by 150%. It is sold at Rs 3300 after giving 40% discount. What is x (in Rs)?
 - a) 2200
 - b) 2467
 - c) 1478
 - d) 3967
- 36. At 20% discount the selling price of an article is Rs 4800, what is the selling price (in Rs) if the discount is 32.5%?
 - a) 2365
 - b) 3869
 - c) 4050
 - d) 5000
- 37. If 1 shirt is offered free on purchase of 6 shirts, what is the effective discount (in %) on each shirt?
 - a) 24.45
 - b) 14.28
 - c) 16.23
 - d) 10.11
- 38. Geeta offers a discount of 20% on the marked price, then she makes a loss of 16%. What %

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profit or % loss will she make if she sells goods at a discount of 10% of the marked price?

- a) 12 percent profit
- b) 18 percent profit
- c) 20 percent profit
- d) 5.5 percent loss
- 39. Ticket for an adult is Rs 1440 and a child is Rs 1080. 1 child goes free with two adults. If a group has 23 adults and 10 children what is the discount the group gets?
 - a) 35.55 percent
 - b) 24.59 percent
 - c) 65.77 percent
 - d) 71.66 percent
- 40. 5% discount is offered on an item. By applying a promo code the customer wins 30% cash back. What is the effective discount?
 - a) 22.8 percent
 - b) 33.5 percent
 - c) 21.65 percent
 - d) 20.32 percent
- 41. A shopkeeper professes to sell all things at a discount of 20%,but increases selling price of each article by 50%. His gain on each article is
 - a) 26%
 - b) 20%
 - c) 17%

- d) 19%
- 42. A shopkeeper makes a profit of 25% after giving a discount of 50% on an item. Marked price is what percentage of cost price?
 - a) 172.5%
 - b) 187.5%
 - c) 170%
 - d) 200%
- 43. A trader marked up his article 25% more than the cost price. If he offered a discount of 10%, then what will be his profit percentage?
 - a) 11.50%
 - b) 12.5%
 - c) 12.25%
 - d) 13.5%
- 44. If the discount offered on an article is 35%, then what will be the ratio of selling price and marked price?
 - a) 12:13
 - b) 14:17
 - c) 15:16
 - d) 13: 20
- 45. The marked price of an article is Rs.1520. If the discount offered on this article is 20%, then what will be the selling price?
 - a) Rs.1206
 - b) Rs.1636

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- c) Rs.1216
- d) Rs.1615
- 46. A buys an article at Rs.1620 and sells it after giving two successive discounts of 10% and 20%. What will be the selling price (in Rs.) of the article?
 - a) 1166.40
 - b) 1635.60
 - c) 1754.20
 - d) 1325.30
- 47. The cost price of a pair of shoes is Rs.1440. What should be the marked price (in Rs.) on a pair of shoes such that after allowing a discount of 16%, the shopkeeper earns 12% profit?
 - a) 15600
 - b) 1920
 - c) 18340
 - d) 18700
- 48. A shopkeeper sold an article for Rs.360 by making a profit of 20%. The shopkeeper offered a discount of Rs.60 on marked price. How much

percent above the cost price the article is marked?

- a) 35%
- b) 33.5%
- c) 40%
- d) 25.75%
- 49. The marked price of an article is Rs.200. After allowing a discount of 20% on the marked price, a shopkeeper makes a profit of Rs.16. His gain percent is:
 - a) 19
 - b) $11\frac{1}{9}$
 - c) 22 $\frac{1}{9}$
 - d) 18
- If three successive discounts of 20%, 30% and 50. 40% are given, then what will be the net discount (in percentage)?
 - a) 80
 - b) 87.6
 - c) 90
 - d) 66.4

ANSWERS

1) Answer: D

Effective discount

$$= \left(20 + 10 - \frac{20 \times 10}{100}\right)\% = 30 - 2 = 28\%$$

2) Answer: B

$$CP = \frac{100}{90} \times 900 = Rs. 1000$$

SP when discount is
$$27.5\% = \frac{72.5}{100} \times 1000 = 725$$

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3)Answer: A

$$MP = 100/75 \times 2475 = 100 \times 33 = Rs.3300$$

4) Answer: D

$$SP = \frac{160}{100} \times \frac{90}{100} \times 22500 = 16 \times 9 \times 225$$

$$= Rs.32400$$

5) Answer: A

CP of 1 copy and 3 book =
$$1 \times 10 + 3 \times 30 =$$

$$10 + 90 = Rs. 100$$

Discount obtained = $10/100 \times 10 + 20/100 \times 30 \times 3$

$$= 1 + 18 = Rs.19$$

Effective discount =
$$\frac{19}{100} \times 100 = 19\%$$

6) Answer: D

According to question:

$$\frac{80}{100} \times \frac{220}{100} \times x = 704$$

$$=> x = \frac{704 \times x100}{8 \times 22} = Rs.400$$

7) Answer: A

Effective discount =
$$\frac{1}{4} \times 100 = 25\%$$

8) Answer: B

Use formula for successive discount.

Effective discount =
$$\left(x + y - \frac{xy}{100}\right)\%$$

$$= (20 + 25 - \frac{20-25}{100})\% = 45 - 5 = 40\%$$

9) Answer: B

$$(100 - 34)\%$$
 of MP = 330

$$=>\frac{66}{100}MP=330$$

$$=> MP = 500$$

10) Answer: A

$$CP = 1600$$

$$MP = 1600 + 640 = 2240$$

$$Discount = 25\%$$

So,
$$SP = \frac{75}{100} \times 2240 = 1680$$

11) Answer: C

$$SP = 656$$

$$\frac{82}{100}MP = 656$$

$$=> MP = \frac{656 \times 100}{82} = 800$$

12) Answer: B

Net discount =
$$50 + 10 - \frac{50 \times 10}{100}$$

$$=60-5=55\%$$

13) Answer: B

Net discount =
$$20 + 30 - \frac{20 \times 30}{100}$$

$$=50-60=44\%$$

14) Answer: D

$$\left(\frac{100 - 23}{100}\right) MP = 693$$

$$=> MP = \frac{693 \times 100}{77} = 900$$

15) Answer: A

Net discount =
$$20 + 35 - \frac{20 \times 35}{100} = 55 - 7 = 48\%$$

$$=> \left(\frac{100 - 48}{100}\right) \times MP = 1300$$

$$=> MP = \frac{1300 \times 100}{52} = 2500$$

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16) Answer: A

Let
$$MP = 100$$

Discount =
$$20\%$$
, so SP = 80

$$Profit = 60\%$$

$$=>\frac{60}{100}=\frac{80-CP}{CP}$$

$$=>\frac{80}{CP}=\frac{3}{5}+1=\frac{8}{5}$$

$$=> CP = 50$$

If discount = 40%

$$SP = 60$$
, Profit $\% = \frac{60-50}{50} \times 100 = 20\%$

17) Answer: C

$$\frac{d}{100} \times 2400 = 1836$$

$$=> d = \frac{1836 \times 100}{2400} = 76.5$$

So, net discount = 100 - 76.5 = 23.5%

$$23.5 = a + b - ab/100$$

$$=> 23.5 = 10 + b - \frac{10b}{100}$$

$$\Rightarrow \frac{9b}{10} = 23.5 - 10 = 13.5$$

$$=> b = \frac{135}{9} = 15$$

so, second discount = 15%

18) Answer: B

$$\frac{80}{100} \times MP = 5000$$

$$=> MP = \frac{5000 \times 100}{80} = 6250 Rupees$$

19) Answer: D

$$CP = 900,$$

$$MP = \frac{180}{100} \times 900 = 1620$$

$$SP = \frac{(100-20)}{100} \times 1620$$

20) Answer: D

Net discount % = 20 + 12
$$-\frac{20 \times 12}{100}$$
 = 32 $-\frac{12}{5}$ =

29.6%

$$(100 - 29.6)\%$$
 of MP = 1760

$$=> MP = \frac{1760}{70.4} \times 100 = 2500$$

21) Answer: A

Discount\% =
$$\frac{MP - SP}{MP} \times 100$$

$$=\frac{1075-946}{1075}\times100$$

$$= 12\%$$

22) Answer: B

$$MP = 250.$$

$$Discount = 40\%$$

$$SP = 127.50$$

Total discount =
$$\frac{250-127.50}{250} \times 100 = 49\%$$

Let additional discount = a

$$=>49=40+a-\frac{40a}{100}$$

$$=>\frac{60a}{100}=9$$

$$\Rightarrow a = \frac{900}{60} = 15 \%$$

23) Answer: C

Let
$$MP = 100$$
, Discount = 25%

$$SO, SP = 75$$

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Loss = 15%

$$=>\frac{15}{100}=\frac{CP-75}{CP}$$

$$=>\frac{75}{CP}=1-\frac{15}{100}=\frac{85}{100}$$

$$=> CP = \frac{75 \times 100}{85} = \frac{1500}{17}$$

If
$$SP = MP = 100$$

Profit% =
$$\frac{100 - \frac{1500}{17}}{\frac{1500}{17}} \times 100$$

$$=\frac{1700-1500}{1500}\times100$$

$$=\frac{200}{15}=13.33\%$$

24) Answer: A

Net discount =
$$15 + 35 - \frac{15 \times 35}{100}$$

$$=50-5.25=44.75\%$$

25) Answer: B

Let
$$MP = 100$$

Discount =
$$20\%$$
, 10% , 30%

$$SP = \left(\frac{80}{100}\right) \left(\frac{90}{100}\right) \left(\frac{70}{100}\right) (100)$$

$$SP = \frac{504}{10} = 50.4$$

SO, effective discount = 100 - 50.4 = 49.6%

26) Answer: A

$$SP = \frac{80}{100} \times 960 = 768 \text{ rupees}$$

27) Answer: C

Discount
$$\% = \frac{640 - 450}{640} \times 100$$

$$= 29.68\%$$

28) Answer: D

Let
$$CP = 100$$
, $MP = 140$

$$SP = \frac{85}{100} \times 140 = 119$$

So, Profit\% =
$$\frac{119-100}{100} \times 100$$

29) Answer: A

$$MP = 136$$
, Discount = 15%

$$SP = \frac{85}{100} \times 136 = 115.6$$

$$\frac{15.6}{100} = \frac{115.6 - cp}{cp}$$

$$=>\frac{115.6}{CP}=\frac{156}{1000}+1$$

$$=>\frac{115.6}{CP}=\frac{1156}{1000}$$

$$=> CP = 100$$

30) Answer: B

Price after 30% discount =
$$\frac{70}{100} \times 500 = Rs.350$$

Additional discount given =
$$350 - 280 = Rs. 70$$

Additional discount
$$\% = \frac{70}{350} \times 100 = 20\%$$

31) Answer: A

Discount =
$$96 - 84 = Rs. 12$$

% discount =
$$\frac{12}{96} \times 100 = 12.5\%$$

32) Answer: B

Let the market price be Rs. 100

Cost price =
$$\frac{75}{100} \times 100 = Rs.75$$

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Mark up percentage =
$$\frac{100-75}{75} \times 100 = \frac{1}{3} \times 100 = 33.33\%$$

33) Answer: B

Discount =
$$10000 - 8800 = Rs. 1200$$

% discount =
$$\frac{1200}{10000} \times 100 = 12\%$$

34) Answer: B

Use formula for successive discount

Effective discount =
$$\left(15 + 50 - \frac{15 \times 50}{100}\right)\% = 65 - 65$$

7.5

$$= 57.5\%$$

35) Answer: A

According to question:

$$\frac{60}{100} \times \frac{250}{100} \times x = 3300$$
$$= > x = \frac{3300 \times 100}{6 \times 25} = Rs. 2200$$

36) Answer: C

$$CP = \frac{100}{80} \times 4800 = 100 \times 60 = Rs.6000$$

SP when discount is
$$32.5\% = \frac{67.5}{100} \times 6000 =$$

$$67.5 \times 60 = Rs.4050$$

37) Answer: B

Effective discount =
$$\frac{1}{7} \times 100 = 14.28\%$$

38) Answer: D

Let listed price be Rs. 100

SP with
$$20\%$$
 discount = Rs. 80

Since there is loss of 16 %,
$$CP = \frac{100}{84} \times 80 = \frac{2000}{21} Rs$$
.

SP When 10% discount = Rs. 90

Profit or loss percent =
$$\frac{90 - \frac{2000}{21}}{\frac{2000}{21}} \times 100 =$$

$$\frac{1890-2000}{2000} \times 100$$

$$= -5.5\%$$
 i.e loss of 5.5%

39) Answer: B

Ticket cost of the group without discount = $23 \times$ $1440 + 10 \times 1080 = Rs.43920$

Now, a child can go free with 2 adults. There are 10 children, so 20 adults are needed for the Children to go for free. In the group we have 23 adults. Therefore all children can go for free

 \therefore The discount the will get = $10 \times 1080 = 10800$

Discount percentage =
$$\frac{10800}{43920} \times 100 = 24.59\%$$

40) Answer: B

effective discount =
$$\left(30 + 5 - \frac{30 \times 5}{100}\right)\% = 35 - 1.5$$

= 33.5%

41) Answer: B

Explanation

Let us assume cost price is 100. Then the marked price is 150

$$SP = 150 \times 80/100 = 120.$$

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Profit $\% = (S.P-C.P)/(C.P) \times 100 = (120 - 100)/100$

 $\times 100$

= 20%

42) Answer: D

Let the MP = Rs.100

SP of the article = $100 \times \frac{75}{100}$ = Rs.75

CP of the article = $\frac{75}{150} \times 100 = \text{Rs}.50$

Required Percentage = $\frac{100}{50} \times 100$

= 200%

43) Answer: B

Let CP = 100

then MP = 125

SP of the article = $125 \times \frac{90}{100} = 112.5$

Profit Percentage = $\frac{112.5-100}{100} \times 100 = 12.5\%$

44) Answer: D

Let the MP of article = Rs.100

 $SP ext{ of article} = Rs.65$

Ratio of SP to MP = 65 : 100 = 13 : 20

45) Answer: C

M.P of article = Rs.1520

Selling Price = $1520 \times 80/100 = Rs.1216$

46) Answer: A

Selling Price = $1620 \times \frac{90}{100} \times \frac{80}{100} = \text{Rs. } 1166.40$

47) Answer: A

Answer: B

S.P of a pair of shoes = $1440 \times 112/100$

= Rs.1612.80

M.P of a pair of shoes = $1612.80/84 \times 100$

= Rs.1920

48) Answer: C

C.P of the article = $\frac{360}{120} \times 100 = \text{Rs. } 300$

M.P = 360 + 60 = Rs.420

Percent above the Cost Price the article is marked

 $=\frac{120}{300}\times 100 = 40\%$

49) Answer: B

 $SP = 200 \times \frac{80}{100} = Rs.160$

CP = 160 - 16 = Rs.144

Profit percentage = $16/144 \times 100 = 11\frac{1}{9}\%$

50) Answer: D

Let MP be 100

SP after discount = $100 \times 80/100 \times 70/100 \times$

60/100 = 33.6

We know, discount = MP - SP

So, net discount = 100 - 33.6 = 66.4

 \therefore Discount % = 66.4/100 × 100 = 66.4%

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