

# Bank Written Math Preparation

**Lec. 06**

**Profit, Loss & Discount**

**Learn Today, Lead Tomorrow**

FOR ADMISSION:  
01713289149

## Question for Class Practice

1. A shopkeeper marks his goods 20% higher than the cost price of sells them at 25% above marked price. Find his profit percent? [RAKUB-(Officer-2011-(Written))]  
Ans. Profit 50%
  
2. A seller incurs a loss of 15 percent when a table is sold at taka 10200. At what price the table should be sold to make a profit of 35%? [South East Bank Ltd. (PO)-2012 (Written)]  
Ans. Tk. 16200
  
3. A good sells for Tk. 60. This price gives the seller a profit of 20% on his cost. What will be the new retail price if he cuts his profit to 12% of its cost? [PKSF (AM)-2009-(Written)]  
Ans. Tk. 56
  
4. A loss of 15% is incurred by selling a watch for Tk. 612. How much is the sum of money by which it is sold to make a profit of 10%? [Bangladesh Bank (AD)-2009 ((Written)]  
Ans. Tk. 792
  
5. A good has been sold at a loss of 12%. If it could be sold by Tk. 1000 more, there could have been profit of 8%. What is the cost price of that good? [Janata. Sonali, Agrani Rupali Bank (Officer) Examination-2008 (Written)]  
Ans. Tk. 100
  
6. A person bought an article and sold it at a loss of 10%. If he had bought for 20% less and sold it for Tk. 55 more, he would have made a gain of 40%. What was the cost of the article? [Pubali Bank Ltd (SO)-2011] + [Dhaka Bank (TACO)-2021 (Written)]  
Ans. Tk. 250
  
7. An article is sold at 20% profit. If its cost price is increased by Tk. 50 and at the same time if its selling price is also increased by Tk. 30, the percentage of profit decreases by  $3\frac{1}{3}\%$ . Find the cost price? [Puballi Bank Ltd. (SO)-2013(Written)]  
Ans.  $\therefore x = 850$
  
8. A shopkeeper sells two shirts at the same price. He makes 10% profit on one and loses 10% on the other. How much in percentage does he gain or lose? [Agrani Bank (SO-Auditor)- 2018- (Written)] & [Rupali Bank – (Cash)-2018- (Written)]  
Ans. 1% Loss
  
9. Fatiha sold her chicken for Tk. 2000 and her paddy for Tk. 960. She made a profit of 25% on the cost in the chicken sale and 5% loss in paddy sale. Find out her overall profit/loss on the cost from the sale of these two items. [Standard Bank (TAO)-2013 (Written)]
  
10. Mr. Reach sold two properties p1 & p2 for Tk. 50,000 each. He sold property p1 for 20% more than what he paid for it & sold p2 less than 20% what he paid for it. What was his total gain or loss, if any, on the scale of two properties? (BB (Officer)-2001(Written)]  
Ans. Tk. 4166.67loss
  
11. A man sells two commodities for Tk. 4000 each, neither losing nor gaining in the deal. If he sold one commodity at a gain of 25%, the other commodity is sold at a loss of: [Meghna Bank Ltd. (MTO)-2014-(Written)]  
Ans.  $16\frac{2}{3}\%$
  
12. A producer produces a product and sells it to the wholesaler at 25% profit over the production cost. The wholesaler makes a 20% profit on his purchase price and sells it to the retailer. The retailer sells it to the final consumer at Tk. 900 making a profit of 20% over his purchase price. What was the production cost of the product? What was the overall increase (In percent) in price paid by the final consumer from the production cost? [Dutch Bangla Bank Ltd. (TO) – 2010 – (Written)]  
Ans. 500 & 80%

13. A lamp is manufactured to sell for \$35.00, which yields a profit of 25% of cost. Of the profit is to be reduced to 15% of cost, what will be the new retail price of the lamp? [Janata Bank (EO-Electrical) 2017 (Written)]  
Ans. \$32.20
14. Zen corporation's profits have doubled for each of the 4 years it has been in existence. If the total profits for the last 4 years were Tk. 60 lacs, how much profit did it make in the first year of operation? [Standard Bank (PO)-2013, Dutch Bangla Bank (MTO)- 2009 (Written)]  
Ans. 21ach
15. In 2005, the number of pairs of the shoes that a company sold to retailers decreased by 20 percent, while the price per pair increased by 20 percent from that of the previous year. The company's revenue from sales of the shoes in 2005 was Tk. 3,00,000. What was the revenue from the sale of the shoes in previous year? [Bangladesh Commerce Bank (Officer)-2006, Janata Bank (IT Officer)-2016(Written)]  
Ans. Tk. 312,500
16. In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit now ? [Jamuna Bank Ltd. (Po)- 2012 (Written)] & [HBFCL. (SO)-2015-(Written)] + [PKB- (EO)-2019] - [Janata Bank (AEO-Teller)-2020(Written)]
17. When a producer allows 36% commission on the retail price of his product, he earns profit of 8.8%. What would be his profit percent if the commission is reduced by 24% [Pubali Bank Ltd. (SO)-2014-(Written)]  
Ans. Tk. 16200
18. A trader, while selling a pen, was asking for such a price that would enable him to offer a 10% discount and still make a profit of 20% on cost. If the cost of the pen was Tk. 30 what was his asking price? [City Bank (Off)-1999 (Written)]
19. Someone bought a bat at 20% discount and after using IFIC Amar Card he got another 40% discount. If he paid Tk. 240 what was the original price of the bat. [IFIC Bank (TSO)- 2021 (Written)]  
Ans. Tk. 500
20. A trader marked the price of the T.v. 30% above the cost price of the T.V. and gave the purchaser 10% discount on the marked price, thereby gaining Tk. 340. Find the cost price of the T.V? [sawaal.com]  
Ans. Tk. 2000
21. A dishonest business man makes a profit of 10% both on buying and selling of a commodity. If his profit is Tk. 1050, what is the cost of the commodity? [Southeast Bank Ltd. (MTO) - 2015 (Written)]  
Ans. Tk. 5000
22. A dishonest merchant makes a 10% profit at the time of buying and a 5% loss at the time of selling the goods he/she trades. By doing so it the said merchant made a profit of Tk. 900 on a particular item, what was the real cost of item sold? [Southeast Bank (MTO)- 2015-(Written)] & {Bank Asia (MT & PO)-2015 (Written)]  
Ans. Tk. 20.000
23. Katrina has a wheat business. She purchases wheat from a local wholesaler at a particular cost per pound. The price of the wheat at her stores is \$3 per pound. Her faulty spring balance reads 0.9 pounds for a pound. Also, in the festival season, she gives a 10% discount on the wheat. She found that she made neither a profit nor a loss in the festival season. At what price did katrina purchase the wheat from the wholesaler? [Jamuna Bank Ltd. 2016 (Written)]  
Ans. She made neither profit nor loss. So, the selling price is also the cost price = \$2.43
24. A trader had 22 pens and he hold some of them at a profit of Tk. 35 per unit and some at a loss of Tk. 10 per unit. If his total profit was Tk. 635, how many pens did he sell at a loss? [Ultra Bank Ltd. (PO) – 2009- (Written)]  
Ans. 3
25. 10% fruit of a seller was damaged during transportation, another 15% was rotten. At what profit in percentage should he sell rest fruit so that he can make an overall profit of 20% ? [ONE Bank (PO)-2010 (Written)]
26. What will be the profit in percent if one buys 12 units of a product for Tk. 10 and sells 10 units of it for Tk. 12? Show calculations. [BDBL- (so)-2011- (Written)]

27. The percentage profit earned by selling an article for Tk. 1920 equal to the percentage loss incurred by selling the same article for Tk. 1280. At what price should the article be sold to make 25% profit? [South East Bank (MTO)-2013, BB (ADff)- 2015, Shahajalal Islami Bank (MTO)-2013 (Written)] & [Southeast Bank - (TO)-2018-(Written)]  
Ans. Tk. 2000

### Question for Self Practice

28. By selling a books for Tk. 675. a seller loses  $\frac{2}{9}$  of his outlay. By selling it for Tk. 810, his gain or loss percentage is? [EXIM Bank (TO)-2020 (Written)]

Ans.  $6\frac{2}{3}\%$

29. A lamp is manufactured to sell for \$35.00, which yields a profit of 25% of cost. If the profit is to be reduced to 15% of cost, what will be the new retail price of the lamp. [Janata Bank (EO-Electrical)-2017(Written)]  
Ans. \$32.20

30. When a product is sold for Tk. 18,700, the seller loses 15%. At what price must that product be sold in order to gain 15%? [BSEC (PA)-2021 (Written)]  
Ans. Tk. 25300

31. A salesman sales two shirts at BDT 594 each. On one he gains 10% and other he losses 10%. Find his gain or loss.? [Janata Bank (Off-Cash)-2020 (Written)]  
Ans. 1%

32. Mr. X sold 2 properties,  $P_1$  and  $p_2$  for Tk. 1,00,000 each. He sold property  $p_1$  for 20% less than what he paid for it. What is the percentage of profit of property  $p_2$  so that he is not in gain or loss, on the sale of the two properties? [One Bank Ltd. (PO) – 2008- (Written)]  
Ans.  $33\frac{1}{3}\%$

33. A person sells two articles. Each for the same price of Tk. 1040. He incurs 20% loss on the first and 10% loss on the second. Find his overall percentage of loss. [BB Ltd (Off)- 2015(Written)]  
Ans. 15.29%

34. A video magazine distributor made 3500 copies of the May issue of the magazine at a cost of Tk. 4,00,000. He gave 500 cassettes free to some key video libraries. He also to sell all the 3500 cassettes that were produced. If the market price of a cassettes was Tk. 160, what is his gain or loss for the May issue of the video magazine? {national Bank Ltd.- (PO)-2015-Written]  
Ans. Tk. 40,000

35. In 2017, the number of product that a company sold to retailers decreased by 20%, while the price per unit increased by 20% from that of previous year. Company's revenue from the sales of the product in 2017 was Tk. 6,00,000. Find out the difference between the sales revenue of the year 2017 and 2016. [One Bank (SCO)-2018-(Written)]  
Ans. 25,000

36. A trader, while selling an item, was asking for such a price that would enable him to offer a 20% discount and still make a profit of 30% on cost. If the cost of the item was Tk. 50 what was his asking price? [Bangladesh Bank (AD) – 2008 – (Written)] & [Standard Bank Ltd. (5TAO)-2016-(Written)]  
Ans. 81.25

37. A dishonest business man makes a profit of 10% both on buying and selling of an article. If his profit is Tk. 630, what is the cost of the article? [Pubali Bank Ltd. (sO)-2014] + (Sonali Bank Ltd. (Officer) Written-2014)

Ans. Tk. 3000

38. A dishonest merchant makes a 15% profit at the time of buying and a 10% loss at the time of selling the goods he trades. By doing so if the merchant makes amount of Tk. 3,500 on selling the particular goods, what was the real cost of the goods the merchant sold ? [Agrani Bank-(So)-2017(Written)]

Ans. 100000

39. A trader had 22 pens and he sold some of them at a profit of Tk. 35 per unit and some at a loss of Tk. 10 per unit. If his total profit was Tk. 635, how many pens did he sell at a loss ? [Ultra Bank Ltd. (PO)-2009- (Written)]

Ans. 3

40. A salesman sales 5 Marbles for 1 taka and incurred 12% loss. If he wants to make 10% profit how many marbles he should sell for 1 Taka? [38<sup>th</sup> BCS] + [IFIC Bank (TSO)-2020(Written)]

Ans. 4

41. Nipu has 100 balls, 50 red and 50 black sell 48 each. if black sell 20% loss and red sell 20% profit. What is the net profit or loss in tk.? {DBBL-(PO)-2017-(Written)]

Ans. Tk. 200

42. A man purchased equal number of bananas at two different rates-one at the rate of Tk. 8 per dozen and the other at the rate of Tk. 10 per dozen. He sold all those bananas at an average rate of Tk. 11 per dozen and those made a profit of Tk. 100. How many dozen of bananas did he purchase altogether ? [Dhaka Bank Ltd. (MTO) Exam-2011 (Written)]

Ans. 50 dozen

43. What will be the percentage of profit if 11 items are bought at Tk. 10 and then 10 of those items are sold at Tk. 11? [AB Bank (PO)-1995 (Written)] + [quora.com]

Ans. 21%

44. The cost of two watches taken together is Tk. 840. If, by selling one at a profit of 16% and the other at a loss of 12%, there is no loss or gain in the whole transaction, find the cost of each of the two watches. [Shahajalal Islami Bank (MTO)-2011] (SIBL- (PO)-2017(Written)]

Ans. Tk. 360 & Tk. 480

45. A shopkeeper lost 7.5% by selling an article. If he had bought it at 10% less and sold it for Tk. 31 more, he would have gained 20%. Find the cost price of the article. [National Bank Ltd. (PO)-2014(Written)]

Ans. Tk. 200

46. A book and a pen were sold for Tk. 3040 making a profit of 25% on the book and 10% on the pen. By selling them for Tk. 3070, the profit realizes would have been 10% on the book and 25% on the pen. Find the cost of each. [South East Bank (PO)-2016(Written)]

Ans. Tk. 1200 & Tk. 1400