Chapter 2

SALES TAX AND VALUE ADDED TAX (VAT)

POINTS TO REMEMBER

- 1. Calculation of Sales Tax or Trade Tax :
 - (i) When no discount is given, then marked or list price of an article becomes the sales price and sales tax is calculated on it.
 - (ii) When discount or rebate is given, then first calculate the discount and find the selling price after deducting the discount from marked price and then calculate the sales tax on this selling price.

Sales $tax = Rate of sales tax \times Marked price.$

Sales price = Marked price + Sales tax.

EXERCISE 2-A

- Q. 1. The maked price of a watch is Rs. 1375. If sales tax is charged at the rate of 4%, find the total cost of the watch.
- Sol. Marked price of the watch = Rs. 1375
 Rate of sales tax = 4%

$$\therefore \text{ Total sales tax} = \text{Rs. } 1375 \times \frac{4}{100}$$
$$= \text{Rs. } 55$$

- :. Total cost price = Rs. 1375 + Rs. 55 = Rs. 1430 Ans.
- Q. 2. The list price of a music system is Rs. 16925. If sales-tax is charged on it at the rate of 6%. Calculate the amount to be paid by a customer for purchasing the music system.
 - Sol. List price of the music system

= Rs. 16925

Rate of sales tax = 6%

$$\therefore \text{ Total sales-tax} = 16925 \times \frac{6}{100}$$
$$= \text{Rs. } 1015.50$$

Hence, cost price = Rs. 16925 + Rs. 1015.50 = Rs. 17940.50 Ans. Q. 3. The owner of a furnishing gallery purchased the following goods from a wholesale dealer:

Item	Quantity	Rate
Pillows	6	Rs. 188 each
Pillow covers	25 pairs	Rs. 43 per pair
Bed-sheets	14	Rs. 216 each
Lace	205 metres	Rs. 6.20 per metre
Curtain hooks	48 dozen	Rs. 14 per dozen

If the sales-tax is charged at 8%, find the total amount paid by him.

Sol. Price of 6 pillows = 6 × 188 = Rs. 1128 Price of 25 pairs pillow covers = 43 × 25 = Rs. 1075

Price of 14 Bed-sheets = $216 \times 14 = Rs$. 3024

Price of 205 metres lace = 6.20×205 = Rs. 1271

Price of 48 dozen curtain hooks $= 14 \times 48 = \text{Rs. } 672$

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Total Amount

$$= Rs. (1128 + 1075 + 3024 + 1271 + 672)$$

= Rs. 7170

Rate of sales-tax = 8%

$$\therefore \text{ Total sales-tax} = 7170 \times \frac{8}{100}$$
$$= \text{Rs. } 573.60$$

Total amount to be paid

$$= Rs. 7170 + Rs. 573.60$$

= Rs. 7743.60 Ans.

- Q. 4. Sameer bought the following items from a departmental store:
 - (i) Medicines worth of Rs. 456;
 - (ii) Cosmetics worth of Rs. 325;
 - (iii) Stationery worth of Rs. 240;
 - (iv) Bakery products worth of Rs. 170.

 If the sales tax is charged at the rate of 5% on medicines; 8% on cosmetics; 6% on stationery and 4% on bakery products, find the total amount paid by Sameer.
 - Sol. Price of medicines = Rs. 456

 Price of cosmetics = Rs. 325

 Price of stationery = Rs. 240

 Price of Bakery products = Rs. 170

 Sales tax on medicines = 5%

 Sales tax on cosmetics = 8%

 Sales tax on stationery = 6%

 and sales tax on bakery products = 4%

 ∴ Sales tax on medicine

= Rs.
$$456 \times \frac{5}{100}$$
 Rs. 22.80

Sales tax on cosmetics = Rs.
$$325 \times \frac{8}{100}$$

= Rs. 26.00

Sales tax on stationery = Rs.
$$240 \times \frac{6}{100}$$

= Rs. 14.40

Sales tax on bakery products

$$= Rs.170 \times \frac{4}{100} = Rs.6.80$$

Total marked price = Rs. 456 + Rs. 325 + Rs. 240 + Rs. 170 = Rs. 1191

Total sales tax = Rs.
$$22.80 + 26.00$$

+ Rs. $14.40 + Rs. 6.80$
= Rs. 70.00

Total cost price of the bill = Rs. 1191

+ Rs. 70

= Rs. 1261 Ans.

- Q. 5. Roshan buys a moped with a marked price of Rs. 12500. He gets a rebate of 10% on it. After getting the rebate, sales tax is charged at the rate of 6%. Find the amount he will to pay for the moped.
 - Sol. Marked price of the moped = Rs. 12500 Rebate = 10%

.. Net price after rebate

$$= Rs. \frac{12500 (100 - 10)}{100}$$

$$= Rs.12500 \times \frac{90}{100} = Rs. 11250$$

Rate of sales tax = 6%

$$\therefore \text{ Total sales tax} = \text{Rs.} 11250 \times \frac{6}{100}$$
$$= \text{Rs.} 675$$

:. Cost price of the moped

$$= Rs. 11250 + Rs. 675$$

 $= Rs. 11925 Ans.$

- Q. 6. Anurag buys goods worth of Rs. 5500. He gets a rebate of 5% on it. If sales tax is charged at the rate of 8%, find the amount he will have to pay for the goods.
- Sol. List price of the goods = Rs. 5500 Rate of rebate = 5%

.. Net price after rebate

$$= Rs. \frac{5500 (100 - 5)}{100}$$

$$= Rs. 5500 \times \frac{95}{100} = Rs. 5225$$

Rate of sales tax = 8%

: Total sales tax

$$= Rs. 5225 \times \frac{8}{100} = Rs.418$$

:. Cost price of the goods

= Rs. 5225 + Rs. 418 = Rs. 5643 Ans.

Q. 7. Prem bought a suitcase worth Rs. 2800. If he got a discount of $7\frac{1}{2}\%$ on it and paid sales-tax at the rate of $7\frac{1}{2}\%$, find the final amount he paid for the suitcase.

Sol. List price of a suitcase = Rs. 2800

Discount =
$$7\frac{1}{2}$$
% of Rs. 2800
= Rs. $\left[2800 \times \frac{15}{2 \times 100}\right]$
= Rs. 210

Cost of the suitcase after discount = Rs. (2800 - 210) = Rs. 2590

Sales-tax =
$$7\frac{1}{2}\% = \frac{15}{2}\%$$
 of Rs. 2590

$$= Rs. \left[2590 \times \frac{15}{2 \times 100} \right] = Rs. \ 194.25$$

: Final amount to be paid for the suitcase = Rs. (2590 + 194.25) = Rs. 2784.25 Ans.

- Q. 8. The catalogue price of a computer set is Rs.45000. The shopkeeper gives a discount of 7% on the listed price. He gives a further off-season discount of 4% on the balance. But sales tax at 8% is charged on the balance amount. Find:
 - (i) the amount of sales tax a customer has to pay.

(ii) the final price he has to pay for the computer set. (2005)

Sol. Catalogue price of the computer set = Rs.45000

Rate of first discount = 7%

 $\therefore \text{ Amount of discount} = \text{Rs.45000} \times \frac{7}{100}$ = Rs.3150

Amount after discount,

= Rs.45000 - Rs.3150 = Rs.41850

Rate of off-season discount = 4%

:. Amount of second discount,

 $= \text{Rs.41850} \times \frac{4}{100}$

= Rs.1674

Net price of computer = Rs.41850 - Rs.1674 = Rs.40176

Rate of sale tax charged = 8%

- (i) :. Amount of sale tax = Rs.40176 $\times \frac{8}{100}$ = Rs.3214.08
- (ii) Final price of the computer = Rs.40176 + Rs.3214.08 = Rs.43390.08 Ans.
 - Q. 9. The sales-price of a sofa-set is
 Rs. 17985, inclusive of sales tax. If the
 rate of sales-tax is 9% of the list price,
 find the list-price of the sofa-set.
 - Sol. Sales price of sofa-set = Rs. 17985

 Rate of sales-tax = 9%

 Let the list price = Rs. 100

 Sales tax = 9%

∴ Sales price = Rs. 100 + 9 = Rs. 109 If sales price is Rs. 109, then list price = Rs. 100

If sales price is Rs. 17985, then list price

= Rs. $\frac{100}{109} \times 1.7985$ = Rs. 16500 Ans.

Q. 10. A colour T.V. is marked for sale at Rs. 17600, which includes sales-tax at 10%. Calculate the sales-tax in rupees. (2000)

Sol. Marked price of colour T.V. = Rs. 17600 Let the list price = xRate of sales-tax = 10%

:. Sale price =
$$x \times \frac{100 + 10}{100} = x \times \frac{110}{100}$$

$$\therefore \frac{110}{100}x = 17600$$

$$x = 17600 \times \frac{100}{110} = \text{Rs. } 16000$$

: Sales-tax in rupees

= Rs. 17600 - Rs. 16000 = Rs. 1600 Ans.

Q. 11. A machine is bought for Rs. 33723 including sales tax. If sales—tax is being charged at 8% of the basic price, find its basic price.

Sol. Cost price of machine = Rs. 33723
Rate of sales tax = 8%
Let basic price = Rs. 100

Then cost price = Rs. 100 + 8 = Rs. 108If cost price is Rs. 105, then basic price = Rs. 100and if cost price is Rs. 33723, then basic price

$$= Rs. \frac{33723 \times 100}{108} = Rs. 31225 Ans.$$

Q. 12. Deepak bought a jacket for Rs. 988, including 4% sales-tax, and a pair of shoes for

Rs. 1417.50, including $12\frac{1}{2}\%$ sales-tax. Calculate:

(i) The basic price of the jacket and shoes together; (ii) The total amount of sales-tax he had to pay on both the items.

Sol. (i) Sales price of jacket = Rs. 988

Rate of sales-tax = 4%

Let, list price of jacket = x

:. Sales
$$\tan x = x \times \frac{4}{100} = \frac{4x}{100}$$

Sale price =
$$x + \frac{4x}{100} = \frac{104}{100}x$$

$$\therefore \frac{104}{100}x = 988$$

$$x = \frac{988 \times 100}{104} = \frac{98800}{\text{Downtoaded from https:// www.studiestoday.com}} = \frac{98800}{\text{powntoaded from https:// www.studiestoday.com}}$$

Let, list price of pair of shoes = x

Sales-tax =
$$x \times \frac{25}{2 \times 100} = \frac{25x}{200}$$

:. Sale price =
$$x + \frac{25x}{200} = \frac{225x}{200}$$

$$\frac{225 x}{200} = \text{Rs. } 1417.50$$

$$x = \frac{1417.50 \times 200}{225} = \frac{141750 \times 200}{100 \times 225} = \text{Rs. } 1260$$

Total basic (list price) = Rs. 950 + Rs. 1260 = Rs. 2210 Ans.

(ii) Amount of sales-tax he had to pay on both items.

= Rs. 988 + Rs. 1417.50 - Rs. 2210

= Rs. 2405.50 - Rs. 2210 = Rs. 195.50 Ans.

Q. 13. Mr. Roy purchased a scooter which was quoted at Rs. 32600. The dealer charged sales tax on it at the rate of 10%. As Mr. Roy wanted to take the scooter outside the state, the dealer charged 2% extra as central sales tax. Find the amount he had to pay for the scooter.

Sol. List price of the scooter = Rs. 32600 Rate of sales tax = 10% Rate of central sales tax = 2%

:. Total tax = $Rs.32600 \times 10\% + Rs. 32600 \times 2\%$

= Rs.
$$32600 \times 12\% = \text{Rs.} \frac{32600 \times 12}{100} = \text{Rs.} 3912$$

 \therefore Cost price = Rs. 32600 + Rs. 3912 = Rs. 36512 **Ans.**

Q. 14. The cost of a fan including sales-tax is Rs. 918. If the list price of the fan is Rs. 850, find the rate of sales-tax.

Sol. Cost price = Rs. 918 Marked price = Rs. 850

> ∴ Amount of total sales-tax = Rs. 918 - Rs. 850 = Rs. 68

$$\therefore \text{ Rate of sales-tax} = \frac{\text{Sales-tax} \times 100}{\text{M.P.}}$$

$$=\frac{68\times100}{850}=8\% \text{ Ans.}$$

Q. 15. Sajal paid Rs. 27 as sales-tax on a bottle of olive oil with Rs. 225 as marked price.

Calculate the rate of sales tax.

- Sol. Marked price of bottle = Rs. 225 Amount of sales tax = Rs. 27
 - .. Rate of sales tax

=
$$\frac{\text{Total sales } \tan \times 100}{\text{M.P.}}$$

= $\frac{27 \times 100}{225}$ = 12% Ans.

- Q. 16. The cost of an almirah is Rs. 5538, inclusive of Rs. 213 as sales tax. Find:
 - (i) the list price of the almirah.
 - (ii) the rate of sales tax.
 - Sol. Cost price of almirah = Rs. 5538 Sales tax = Rs. 213
 - (i) :. List price = Rs. 5538 Rs. 213= Rs. 5325
 - (ii) Rate of sales tax

$$= \frac{\text{Total sales } \tan \times 100}{\text{M.P.}}$$
$$= \frac{213 \times 100}{5325} = 4\% \text{ Ans.}$$

- Q. 17. Kiran purchases an article for Rs. 5,400 which includes 10% rebate on the marked price and 20% sales tax on the remaining price. Find the market price of the article.
- Sol. Let marked price of the article be Rs. x.

Then, rebate = 10% of Rs.
$$x = \text{Rs.} \frac{x}{10}$$

Price after rebate = Rs.
$$\left(x - \frac{x}{10}\right)$$
 = Rs. $\frac{9x}{10}$

Sales tax = 20% of Rs.
$$\frac{9x}{10}$$
 = Rs. $\frac{9x}{10} \times \frac{20}{100}$

$$= Rs. \frac{9x}{50}$$

: SP of the article = Rs.
$$\left(\frac{9x}{10} + \frac{9x}{50}\right) = \frac{45x + 9x}{50} = \text{Rs.} \frac{54x}{50} = \text{Rs.} \frac{27x}{25}$$
But SP = Rs. 5400 (given)

$$\therefore \frac{27x}{25} = 5400$$

$$\Rightarrow x = \frac{5400 \times 25}{27} = 200 \times 25 = 5000$$

Hence, market price of the article is Rs. 5000

- Q. 18. Vivek purchased a computer for Rs. 34164 which includes 10% rebate on the marked price and then 4% sales tax on the remaining price. Find the marked price of the computer.
 - Sol. Cost price of the computer = Rs. 34164
 Rebate = 10%
 and rate of sales tax = 4%
 Let marked price = Rs. x
 Then remaining price after rebate

$$= \frac{x(100-10)}{100} = \frac{9x}{10}$$
Sales tax = $\frac{9x}{10} \times 4\% = \frac{9x+4}{10 \times 100}$

$$= \text{Rs. } \frac{9x}{250}$$

$$\therefore \text{ Cost price} = \frac{9x}{10} + \frac{9x}{250} = \frac{225x+9x}{250}$$

$$= \frac{234}{250}x$$

According to the condition,

$$\frac{234}{250}x = \text{Rs.} 34164$$

$$\therefore x = \text{Rs.} \frac{34164 \times 250}{234}$$

$$= \text{Rs.} 36500 \text{ Ans.}$$

- Q. 19. Radha buys an electric toaster for Rs. 712.80 which includes two successive discounts of 10% and 4% respectively on the marked price and then 10% sales tax on the remaining price. Find the marked price of the toaster.
 - Sol. Let marked price of toaster = Rs. x
 Rate of first discount = 10%
 ∴ Remaining price

= Rs.
$$\frac{x \times (100 - 10)}{100}$$
 = Rs. $\frac{90x}{100}$ = Rs. $\frac{9x}{100}$

= Rs.
$$\frac{9x}{10} \times \frac{(100-4)}{100} = \frac{9x \times 96}{10 \times 100} = \frac{864x}{1000}$$

Rate of sales tax = 10%

: Sales tax =
$$\frac{864 \, x}{1000} \times \frac{10}{100} = \text{Rs.} \frac{864 x}{10000}$$

Cost price = $\frac{864 x}{1000} + \frac{864 x}{10000}$

$$=\frac{8640x + 864x}{10000} = \frac{9504x}{10000}$$

According to the condition,

$$\frac{9504}{10000}x = \frac{71280}{100} \Rightarrow x = \frac{71280}{100} \times \frac{10000}{9504}$$

$$\Rightarrow x = \frac{7128000}{9504} = \text{Rs.}750$$

: List price = Rs. 750 Ans.

Q. 20. Mohit wants to buy a coat whose marked price is Rs. 1890 and sales tax at the rate of 8% is o be charged on it. He tells the shopkeeper to reduce the marked price to such an extent that he as not to pay more than Rs. 1890 including sales ax. Calculate the reduction needed in the marked price of the coat.

$$\therefore \text{ Reduced price Rs.} = \frac{1890(100 - x)}{100}$$

Amount of sales tax =
$$\frac{1890 (100 - x)}{100} \times \frac{8}{100}$$

$$= \frac{189(100-x)}{125}$$
: Cost price = Rs. $\frac{189(100-x)}{125}$

$$+ \text{Rs.} \frac{1890 (100 - x)}{100}$$

= Rs. 189 (100 - x)
$$\left[\frac{1}{125} + \frac{1}{10}\right]$$

$$189 (100-x) \times \frac{(2+25)}{250} = \frac{189 \times 27 (100-x)}{250}$$

According to the condition.

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$$\frac{189 \times 27 (100 - x)}{250} = 1890$$

$$\Rightarrow 189 \times 27 (100 - x) = 1890 \times 250$$

$$100 - x = \frac{2500}{27}$$

$$x = 100 - \frac{2500}{27} = \frac{2700 - 2500}{27} = \frac{200}{27}$$

Amount of Reduction =
$$\frac{200}{27}$$
% of Rs. 1890

$$= Rs.1890 \times \frac{200}{27 \times 100} = Rs. 140$$

:. Amount of Reduction = Rs. 140 Ans.

Q. 21. The marked price of a cooler is Rs. 8568 and sales tax at the rate of 12% is to be charged on it. Sonal wants to buy it for Rs. 8568 including sales tax. What must be the revised marked price for it?

Sol. Marked price of cooler = Rs. 8568 Rate of sales tax = 12%Let rate of discount = x%

$$\therefore \text{ Total discount} = \text{Rs.} \frac{8568 \times x}{100} = \frac{8568 x}{100}$$

Reduced price = Rs.
$$8568 - \frac{8568x}{100}$$

$$= \frac{856800 - 8568x}{100} = \frac{8568(100 - x)}{100}$$

Rate of sales tax = 12%:. After paying sales tax,

cost price =
$$\frac{8568(100 - x)(100 + 12)}{100 \times 100}$$

$$=\frac{8568 \times 112 \times (100 - x)}{10000}$$

According to the condition,

$$\frac{8568 \times 112 \times (100 - x)}{10000} = 8568$$

$$\Rightarrow 100 - x = \frac{8568 \times 10000}{8568 \times 112} = \frac{10000}{112}$$

$$+ \text{Rs.} \frac{1890 (100 - x)}{100}$$

$$= \text{Rs.} 189 (100 - x) \left[\frac{1}{125} + \frac{1}{10} \right]$$

$$\Rightarrow 100 - x = \frac{8568 \times 10000}{8568 \times 112} = \frac{10000}{112}$$

$$x = 100 - \frac{10000}{112} = \frac{11200 - 10000}{112} = \frac{1200}{112}$$

$$= 189 (100 - x) \times \frac{(2 + 25)}{250} = \frac{189 \times 27 (100 - x)}{250}$$

$$\therefore \text{ Reduced price} = \frac{8568 \left(100 - \frac{1200}{112}\right)}{100}$$
According to the condition.

= Rs.8568 ×
$$\frac{(11200 - 1200)}{112 \times 100}$$
 = Rs. $\frac{8568 \times 10000}{112 \times 100}$

= Rs. 7650 Ans.

Q=22. The price of a food processor inclusive of sales-tax of 5% is Rs. 6930. If the sales tax is increased to 8%, how much more does the customer pay for it?

Scl. Let, the marked price of food processor be Rs. x.

Then, sales tax=5% of Rs.x

$$= Rs. \left[x \times \frac{5}{100} \right] = \frac{5x}{100}.$$

.. Total cost of food processor (including sales tax)

$$= \operatorname{Rs.}\left[x + \frac{5x}{100}\right] = \operatorname{Rs.}\frac{105x}{100}.$$

$$\therefore \frac{105 x}{100} = 6930 \implies x = \frac{6930 \times 100}{105} = 6600.$$

Marked price of Food Process or = Rs. 6600 Sales-tax at new rate = 8% of Rs. 6600

$$= Rs. \left[6600 \times \frac{8}{100} \right] = Rs. 528$$

New price to be paid = Rs. (6600 + 528) = Rs. 7128 Increase in price = Rs. (7128 - 6930) = Rs. 198 Hence, the customer has to pay Rs. 198 moré.

Q. 23. The price of a laser printer, including 7% sales-tax, is Rs. 17334. How much less does a customer pay for it, if the salestax on it is reduced to 4%?

Sol.Let the marked price of laser printer be Rs. x Then, sales-tax = 7% of Rs. x

$$= Rs. \left[x \times \frac{7}{100} \right] = Rs. \frac{7x}{100}$$

.. Total cost of laser printer (including sales-tax)

= Rs.
$$\left[x + \frac{7x}{100} \right]$$
 = Rs. $\frac{107x}{100}$

$$\therefore \frac{107x}{100} = 17334 \implies x = \frac{17334 \times 100}{107} = 16200$$

:. Marked price of laser printer = Rs. 16200 Sales-tax at new rate = 4% of Rs. 16200

= Rs.
$$\left[16200 \times \frac{4}{100}\right]$$
 = Rs. 648

Hence, the customer has to pay Rs. 486 less.

EXERCISE 2 (B)

- Q.1. A shopkeeper bought a TV at a discount of 30% of the listed price of Rs. 24,000. The shopkeeper offers a discount of 10% of the listed price to his customer. If the VAT (Value Added Tax) is 10%. Find:
 - (i) the amount paid by the customer.
 - (ii) the VAT to be paid by the shopkeeper.
 - Sol. List price = Rs. 24000, Discount = 30%

$$S.P. = 24000 - \frac{30}{100} \times 24000$$

$$= Rs. 24000 - 7200 = Rs. 16800$$

VAT = Rs.
$$16800 \times \frac{10}{100}$$
 = Rs. 1680

S.P. to customer =
$$24000 - 24000 \times \frac{10}{100}$$

$$= 24000 - 2400 =$$
Rs. 21600

$$VAT = \frac{10}{100} \times 21600 = Rs. 2160$$

(i) Amount paid by customer = Rs. 21600 + 2160 = Rs. 23760

(ii) Total VAT to be paid by shopkeeper = Rs. 2160 - 1680 = Rs. 480

- Q.2. A shopkeeper bought a T.V. set with a marked price of Rs. 4500, at a discount of 15%. The rate of sales tax is 12%. He sold the T.V. set to a customer at a discount of 5% on the marked price. Find:
 - (i) the price which the customer paid for the T.V. set;
 - (ii) the VAT paid by the shopkeeper.

Sol. Marked price of the T.V. set = Rs. 4500 Discount to shopkeeper = 15%

$$\therefore \text{ S.P. of the T. V. set} = \frac{\text{M.P.} \times (100 - \text{Discount\%})}{100}$$

= Rs.
$$\frac{4500 \times (100 - 15)}{100}$$
 = Rs. $\frac{4500 \times 85}{100}$ = Rs. 3825

Rate of S.T. = 12%

Total S.T. =
$$\frac{3825 \times 12}{100}$$
 = Rs. 459

Total price paid by the shopkeeper = Rs. 3825 + 459 = 4284

Discount to the customer on the M.P. = 5%

:. Sale price = Rs.
$$\frac{4500 \times (100 - 5)}{100}$$

= Rs. $\frac{4500 \times 95}{100}$ = Rs. 4275

$$S.T. = 12\%$$

Total S.T. = Rs.
$$\frac{4275 \times 12}{100}$$
 = Rs. 513

- (i) Total price paid by the customer = Rs. 4275 + 513 = Rs. 4788
- (ii) and amount of VAT paid by the shopkeeper = Rs. 513 - Rs. 459 = Rs. 54

Hence, the customer has to pay Rs. 486 less.

3. A trading company M/s Allied Chemicals deals in three chemical products:

Acetone taxable at 4%, Essence taxable at 12.5% and Naphtha taxable at 20%. The company purchased Acetone worth Rs. 1,50,000 plus tax, Essence worth Rs. 2,00,000 plus tax and Naphtha worth Rs. 80,000 plus tax, in the tax period ended 30th June 2006. Compute the tax liability of the company in this tax period if its sales turnovers for Acetone, Essence and Naphtha are Rs. 1,75,000, Rs. 2,50,000 and Rs. 92,000 respectively.

Sol. Rate of tax on Acetone = 4%

Rate of tax on Essence = 12.5%

and rate of tax on Naphtha = 20%

Cost of Acetone = Rs. 1,50,000

Cost of Essence = Rs. 2,00,000

and cost of Naphtha = Rs. 80,000

= Rs. 6000 + Rs. 25000 + Rs. 16000= Rs. 47000

Turnover value of Essence = Rs. 250,000 and turnover value of Naphtha = Rs. 92,00

Output tax = 4% of Rs. 1,75,000 + 12.59of Rs. 2,50,000 + 20% of Rs. 92,000

= Rs. (7000 + 31250 + 18400) = Rs. 5665

Liability of tax = output tax - input tax

= Rs. 56650 - Rs. 47000 = Rs. 9650 Ans.

Q. 4 In the tax period ended March 2006, M/s Daula Ram Textiles purchased Silk Textiles (taxable a 4%) worth Rs. 2,25,000 and Handloom Textile (tax exempted) worth Rs. 1,85,000. During this tax period, the firm sold Silk Textiles worth Rs 2,45,000 and Handloom Textiles worth Rs 1,78,000. However, Silk Textiles worth Rs. 10,00 sold by the firm were returned by the buyer dur ing the same tax period. Calculate the Net Ta payable (under VAT) by this firm. Assume all the purchases and sales data provided above to be exclusive of the taxes.

Sol. Cost of Silk Textiles = Rs. 2,25,000 Rate of tax = 4%

:. Total tax = Rs. 2,25,000 × $\frac{4}{100}$ = Rs. 9000

Handloom textiles = Rs. 185000

Tax = nil

:. Input tax = Rs. 9000 + 0 = Rs. 9000Sale of Silk Textiles = Rs. 245000 Rate of tax = 4%

:. Total tax = $245000 \times \frac{4}{100}$ = Rs. 9800

Silk Textiles returned = Rs. 10000

 \therefore Tax = Rs. 10000 × $\frac{4}{100}$ = Rs. 400

Sale of Handloom textile = Rs. 1,78,000 Tax = nil

 \therefore Output tax = Rs. 9800 - 400 = Rs. 9400

Input tax = 4% of 150,000 + 12.5% of ... Net tax payable under VAT 200000 + 20% of 80000