- Digvijay

Practice Set 4.1 Algebra 10th Std Maths Part 1 Answers Chapter 4 Financial Planning

Financial Planning Class 10 Practice Set 4.1 Question 1.

'Pawan Medical' supplies medicines. On some medicines the rate of GST is 12%, then what is the rate of CGST and SGST? Solution:

Rate of GST = 12 %

$$\therefore \text{ Rate of CGST} = \text{Rate of SGST} = \frac{\text{Rate of GST}}{2}$$
$$= \frac{12}{2} = 6\%$$

.: Rate of CGST = Rate of SGST = 6%

Question 2.

On certain article if rate of CGST is 9% then what is the rate of SGST? and what is the rate of GST?

Solution:

Rate of CGST = 9%

But, rate of SGST = rate of CGST

∴ Rate of SGST = 9%

Rate of GST = Rate of SGST + Rate of CGST = 9% + 9%

 \therefore Rate of GST = 18%

Financial Planning Class 10 Question 3.

'M/s. Real Paint' sold 2 tins of lustre paint and taxable value of each tin is ₹ 2800. If the rate of GST is 28%, then find the amount of CGST and SGST charged in the tax invoice.

Solution:

Taxable value of 1 tin = ₹ 2800

 \therefore Taxable value of 2 tins = 2 × 2800

= ₹ 5600

Rate of GST = 28 %

∴ Rate of CGST = Rate of SGST = 14 %

CGST = 14% of taxable value 14

= 14100 × 5600

∴ CGST = ₹ 784

∴ SGST = CGST = ₹ 784

∴ The amount of CGST and SGST charged in the tax invoice is ₹ 784 each.

Question 4.

The taxable value of a wrist watch belt is 7 586. Rate of GST is 18%. Then what is price of the belt for the customer?

Solution:

Taxable value of wrist watch belt = ₹ 586

Rate of GST = 18%

 \therefore GST = 18% of taxable value

= 18100 × 586

∴ GST = ₹ 105.48

: Amount paid by customer = Taxable value of wrist watch belt + GST

= 586+ 105.48

= ₹ 691.48

∴ The price of the belt for the customer is ₹ 691.48.

Question 5.

The total value (with GST) of a remote-controlled toy car is ₹ 1770. Rate of GST is 18% on toys. Find the taxable value, CGST and SGST for this toy-car.

Solution:

Let the amount of GST be ₹ x.

Total value of remote controlled tov car = ₹ 1770

∴ Taxable value of remote controlled toy car = ₹ (1770 – x)

Now, GST = 18% of taxable value

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$$\therefore \qquad x = \frac{18}{100} \times (1770 - x)$$

$$\therefore$$
 100x = 18(1770 - x)

$$\therefore$$
 100x = 18 × 1770 - 18x

$$\therefore$$
 100x + 18x = 18 × 1770

$$\therefore$$
 118x = 18 × 1770

$$\therefore x = \frac{18 \times 1770}{118} = 18 \times 15 = 270$$

: Taxable value of remote controlled toy car

$$=$$
₹(1770 $-x$)

= ₹1500

But,
$$CGST = SGST = \frac{GST}{2}$$

∴ CGST = SGST =
$$\frac{270}{2}$$
 = ₹ 135

∴ Taxable value of toy car is ₹ 1500 and CGST and SGST for it is ₹ 135 each.

Question 6.

'Tiptop Electronics' supplied an AC of 1.5 ton to a company. Cost of the AC supplied is ₹ 51,200 (with GST). Rate of CGST on AC is 14%. Then find the following amounts as shown in the tax invoice of Tiptop Electronics.

- i. Rate of SGST
- ii. Rate of GST on AC
- iii. Taxable value of AC
- iv. Total amount of GST
- v. Amount of CGST
- vi. Amount of SGST
- Solution:
- i. Rate of CGST = 14%

But, Rate of SGST = Rate of CGST

- ∴ Rate of SGST = 14%
- ii. Rate of GST on AC
- = Rate of SGST + Rate of CGST
- = 14% + 14% = 28%
- \therefore Rate of GST on AC is 28%.

iii. Let the cost (Taxable value) of AC be ₹ 100.

Given, GST = 28%

∴ The cost of AC with GST is ₹ 128.

For the total value of ₹ 128, the taxable value is ₹ 100.

For the total value of \ge 51200, let the taxable value be \ge x

Since,
$$\frac{\text{total value}}{\text{taxable value}} = \text{constant}$$
, as rate of GST

is same

$$\therefore \frac{51200}{x} = \frac{128}{100}$$

$$\therefore \qquad x = \frac{51200 \times 100}{128}$$

= ₹ 40000.

∴ Taxable value of AC is ₹ 40,000.

iv. Total amount of GST = 28% of taxable value

- = 28100 × 40000
- = ₹ 11,200
- ∴ Total amount of GST is ₹ 11,200.
- ∴ Amount of CGST is ₹ 5600.

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v.
$$CGST = \frac{GST}{2}$$

$$= \frac{11200}{2}$$

$$= ₹ 5600$$

.: Amount of CGST is ₹ 5600.

vi. Amount of SGST = Amount of CGST

= ₹ 5600

Amount of SGST is ₹ 5600.

Question 7.

Prasad purchased a washing-machine from 'Maharashtra Electronic Goods'. The discount of 5% was given on the printed price of ₹ 40,000. Rate of GST charged was 28%. Find the purchase price of washing machine. Also find the amount of CGST and SGST shown in the tax invoice. Solution:

Printed price of washing machine = ₹ 40,000

Rate of discount = 5%

Amount of discount = 5% of printed price

= *5100* × 40000 = ₹ 2000

∴ Taxable value = Printed price – Discount

= 40000 - 2000 = ₹ 38000

Rate of GST = 28%

∴ Rate of CGST = 14% and

Rate of SGST = 14%

CGST = 14% of taxable value

= 14100 × 38000

∴ CGST = ₹ 5320

∴ CGST = SGST = ₹ 5320

Purchase price of washing machine

= Taxable value + CGST + SGST

= 38000 + 5320 + 5320

= ₹ 48,640

∴ Purchase price of washing machine is ₹ 48640. Amount of CGST and SGST in tax invoice is ₹ 5320 each.

Question 1.

Observe the given bill and fill in the boxes with the appropriate number. (Textbook pg. no. 82 and 83)

		100	Taxi	invoice of g	oods purcl	nase(Sam	ple)			
	143,	Z SWEET M Shivaji Rasta No. 92636 9 110	, Mumbai					GSTIN: 27 Invoice D		
Sr. No.	HSN	Name of	Rate	Ossantitus	Taxable	CG	ST	SGST		Total
SI. NO.	Code	Product	Rate	Quantity	Amount	Rate	Tax	Rate	Tax	₹
1	210690	Pedhe	₹ 400 per kg.	50Ó gm	200.00	2.5 %	5.00	2.5 %	5.00	210.00
2	210691	Chocolate	₹80	1 bar	80.00	14 %	11.20	14 %	11.20	102.40
3	2105	Ice-cream	₹ 200 per pack	1 pack (500 gm)	200.00	9 %	18.00	9%	18.00	236.00
4	1905	Bread	₹ 35	1 pack	35.00	0 %	0.00	0 %	0.00	35.00
5	210690	Butter	₹ 500 per kg	250 gm	125.00	6 %	7.50	6 %	7.50	140.00
		400000	Decrease and the same		Total	Rupees	41.70		41.70	723.40

Solution:

i. Price of 1 kg of Pedhe is ₹ 400, therefore cost of 500 gm. of Pedhe is ₹ 200.

CGST for pedhe at the rate of 2.5% is $\stackrel{?}{=}$ [5] and SGST at the rate of [2.5] % is $\stackrel{?}{=}$ 5.00. It means that the rate of GST on Pedhe is 2.5% + 2.5% = 5% and hence the total GST is $\stackrel{?}{=}$ 10.

ii. The rate of GST on chocolate is [28] % and hence the total GST is ₹ [22.40]

iii. Rate of GST on Ice-cream is [18] %, hence the total cost of ice-cream is ₹ 236

iv. On butter CGST rate is [6] % and SGST rate is also [6] %. So GST rate on butter is [12]%.

Question 2.

Fill in the blanks with the help of given information for the table given below. (Textbook pg. no. 83)

Solution:

		Ta	x invoice of	services prov	ided (Samp	le)		
		F	ood Junction	n, Khed-Shiva	pur, Pune		Inv	oice No. 58
		Mob. N	o. 75885800	000 email: aha	ır.khed@yah	oo.com		
GSTIN: 2	7 AAAAA5555B1	1ZA				Invoi	ce Date : 25-	Dec -2017
SAC	Food items	Qty	Rate (in.₹)	Taxable Amount	CGST		sc	ST
9961	Coffee	1	20	20.00	2.5 %	₹ 0.50	2.5 %	₹ 0.50
9963	Masala Tea	1	10	10.00	2.5%	₹ 0.25	2.5 %	₹ 0.25
9962	Masala Dosa	2	60	120.00	2.5%	₹3	2.5%	₹3
			Total	150.00		₹ 3.75		₹ 3.75
	1					\	Grand Tota	al = ₹ 157.5

Question 3.

Make a list of ten things you need in your daily life. Find the GST rates with the help of GST rate chart given in the textbook, news papers or books, internet, or the bills of purchases. Verify these rates with the list prepared by your friends. (Textbook pg. no. 85)

Goods	Rate of GST	Goods	Rate of GST
1. Geometry box	12%	6. Bicycle pumps	12%
2. Notebook	12%	7. Perfumes	18%
3. Cheese	12%	8. Condensed milk	12%
4. Fruit juice based drinks	12%	9. Refrigerators	18%
5. Tooth powder	12%	10. Newspapers	0%

Question 4.

Make a list of ten services and their GST rates as per activity 1. (e.g. Railway and ST bus booking services etc.) You can also collect service bills and complete the given information (Textbook pg. no. 85) Solution:

Services	Rate of GST	Services	Rate of GST
1.Railway booking ·	5%	Tour operator services	5%
2.Courier services	18%	7. Beauty services	18%
3. Building construction services	18%	8. Passenger transport services by radio taxi	5%
4. Education services	18%	9. Sporting services – race club	28%
5. Tailoring services	5%	10. Services for printing of journals	12%

Question 5.

Complete the given table by writing remaining SAC and HSN codes with rates and add some more items in the list. (Textbook pg, no. 85) Solution:

Services	SAC	GST rate	Goods	HSN	GST rate
Bus station services	996741	18%	Dulux paint	3208	18%
Airways services (economy)	996425	18%	Ball bearing	84821011	28%
Foreign exchange services	997157	18%	Three wheeled vehicles	8703	28%
Brokerage services	997152	18%	Potatoes	0701	Nil
Taxi services	996423	18%	Pasta	1902	12%
Five-star Hotel services	9963	28%	Medicated toilet soap	34011110	18%
Water well drilling services	995434	18%	Candles	34060010	12%

[Note: The above Activities has many answers students may write answers other than the ones given]

Practice Set 4.2 Algebra 10th Std Maths Part 1 Answers Chapter 4 Financial Planning

Question 1. 'Chetana Store' paid total GST of ₹ 1,00,500 at the time of purchase and collected GST ₹ 1,22,500 at the time of sale during 1st of July 2017 to 31st July 2017. Find the GST payable by Chetana Stores.

Answer:

Output tax (Tax collected at the time of sale)

= ₹ 1,22,500

Input tax (Tax paid at the time of purchase)

= ₹ 1,00,500

ITC (Input Tax credit) = ₹ 1,00,500.

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- Digvijay

GST payable = Output tax – ITC

= 1,22,500 - 1,00,500

= ₹ 22,000

GST payable by Chetana stores is ₹ 22,000.

Question 2. Nazama is a proprietor of a firm, registered under GST. She has paid GST of ₹ 12,500 on purchase and collected ₹ 14,750 on sale. What is the amount of ITC to be claimed? What is the amount of GST payable?

Solution:

Output tax = ₹ 14,750

Input tax = ₹ 12,500

- ∴ ITC for Nazama = ₹ 12,500.
- ∴ GST payable = Output tax ITC
- = 14750 12500
- = ₹ 2250
- ∴ Amount of ITC to be claimed is ₹ 12,500 and amount of GST payable is ₹ 2250.

Question 3. Amir Enterprise purchased chocolate sauce bottles and paid GST of $\stackrel{?}{_{\sim}}$ 3800. He sold those bottles to Akbari Bros, and collected GST of $\stackrel{?}{_{\sim}}$ 4100. Mayank Food Corner purchased these bottles from Akbari Bros, and paid GST of $\stackrel{?}{_{\sim}}$ 4500. Find the amount of GST payable at every stage of trading and hence find payable CGST and SGST.

Solution:

For Amir Enterprise:

Output tax = ₹4100

Input tax = ₹ 3800

ITC for Amir enterprise = ₹ 3800.

- ∴ GST payable = Output tax ITC
- =4100-3800
- = ₹ 300

For Akbari Bros.:

Output tax = ₹ 4500

Input tax = ₹ 4100

ITC for Akbari Bros = ₹ 4100.

GST payable = Output tax – ITC

- = 4500 − 4100 = ₹ 400
- : Statement of GST payable at every stage of trading:

Company	GST payable	CGST payable	SGST payable
Amir Enterprise	₹ 300	₹ 150	₹ 150
Akbari Bros.	₹ 400	₹ 200	₹ 200
Total	₹ 700	₹ 350	₹ 350

Question 4. Malik Gas Agency (Chandigarh Union Territory) purchased some gas cylinders for industrial use for ₹ 24,500, and sold them to the local customers for ₹ 26,500. Find the GST to be paid at the rate of 5% and hence the CGST and UTGST to be paid for this transaction, (for Union Territories there is UTGST instead of SGST.)

Solution:

For Malik Gas Agency:

Output tax = 5% of 26500

- = *5100* × 26500
- = ₹ 1325

Input tax = 5% of 24500

- = *5100* × 24500
- = ₹ 1225

ITC for Malik Gas Agency = ₹ 1225.

- ∴ GST payable = Output tax ITC
- = 1325 1225
- = ₹ 100

$$CGST = UTGST = \frac{GST \text{ payable}}{2} = \frac{100}{2}$$

- ∴ CGST = UTGST = ₹ 50
- ∴ The GST to be paid at the rate of 5% is ₹ 100 and hence, CGST and UTGST paid for the transaction is ₹ 50 each.

Question 5.

M/s Beauty Products paid 18% GST on cosmetics worth ₹ 6000 and sold to a customer for ₹ 10,000. What are the amounts of CGST and SGST shown in the tax invoice issued?

Solution:

Output tax = 18% of 10,000

- = 18100 × 10,000
- = ₹ 1800

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$$CGST = SGST = \frac{\text{Output tax}}{2}$$

$$= \frac{1800}{2} = ₹ 900$$

∴ Amount of CGST and SGST shown in the tax invoice issued is ₹ 900 each.

Question 6.

Prepare Business to Consumer (B2C) tax invoice using given information. Write the name of the supplier, address, state, Date, Invoice number, GSTIN etc. as per your choice.

Supplier: M/s _____ Address _____ State _____ Date ____ Invoice No. ____ GSTIN ____

Particulars

Rate of Mobile Battery ₹ 200 Rate of GST 12% HSN 8507 1 PC Rate of Headphone ₹750 Rate of GST 18% HSN 8518 1 Pc

Solution:

Rate of Mobile Battery = ₹200

CGST = 6% of 200

= *6100* × 200

= ₹ 12

∴ CGST = SGST = ₹ 12

Rate of Headphone = ₹ 750

COST = 9% of 750

= 9100 × 750

= ₹ 67.5

∴ CGST = SGST = ₹ 67.5

Tax	Invoi	ce of	goods	purchase
			Pon men	to our evenue

SUPPLIER: ABC Mobile centre,

48, Raj Business Park, Mumbai: 400086, Maharashtra Mob. No. 8234765820 Email: ABC@gmail.com

Invoice No. GST/120

Invoice Date : 3-Jan -2018

GSTIN: 27PQRST2345K1Z4

Illvoice	140. 051/	120						Invoice	Date: 3-J	an -2018	
Sr.	HSN	Name of	Rate	Ouantitu	Taxable	C	GST	S	GST	Total	0
No	code	product	Rate	Quantity	Amount	Rate	Tax	Rate	Tax	₹	d
1	8507	Mobile Battery	₹ 200	l pc	200	6%	₹ 12	6%	₹ 12	224	·
2 .	8518	Headphone	₹ 750	1 pc	750	9%	₹ 67.5	9%	₹ 67.5	885	2
	*				Total	Rupees	79.5	1	79.5	1109	-

Question 7.

Prepare Business to Business (B2B) Tax Invoice as per the details given below, name of the supplier, address, Date etc. as per your choice. Supplier – Name, Address, State, GSTIN, Invoice No., Date

Recipient – Name, Address, State, GSTIN,

Items

i. Pencil boxes 100, HSN – 3924, Rate – ₹ 20, GST 12%

ii. Jigsaw Puzzles 50, HSN 9503, Rate – ₹ 100 GST 12%.

Solution:

Cost of 100 Pencil boxes

= 20 × 100

= ₹ 2000

CGST = 6% of 2000

= 6100 × 2000

= ₹ 120

∴ CGST = SGST = ₹ 120

Cost of 50 Jigsaw Puzzles = 100×50

= ₹ 5000

CGST = 6% of 5000

= *6100* × 5000

= ₹ 300

CGST – SGST = ₹ 300

Tax Invoice of goods purchase

SUPPLIER: XYZ Wholesaler Store,

GSTIN: 27UVWXY9821K1Z4

12, Shakti heights, Mumbai: 400088, Maharashtra

Mob. No. 9025805866 Email: XYZ@gmail.com

RECIPIENT: PQR Stationary Store,

GSTIN: 27MNOPQ5432K1Z4

4/408, Swaraj Apartment, Mumbai: 400042, Maharashtra

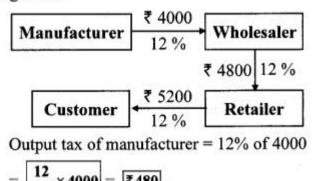
Mob. No. 9851752115 Email: PQR@gmail.com

Sr.	No. GST/1 HSN	Name of	į		Taxable	C	GST		ate: 23 –F GST	Total
No	code	product	Rate	Quantity	Amount	Rate	Tax	Rate	Tax	₹
1	3924	Pencil boxes	₹ 20 Per box	100	₹2000	6%	₹120	6%	₹120	2240
2	9503	Jigsaw Puzzles	₹ 100 Per Puzzle	50	₹5000	6%	₹300	6%	₹300	5600
	*· · · · · · · · · · · · · · · · · ·	A	a Mente de la Cale Antonio de Santo Antonio de	tion in the second second	Total	Rupees	420		420	7840

Question 1.

Suppose a manufacturer sold a cycle for a taxable value of ₹ 4000 to the wholesaler. Wholesaler sold it to the retailer for ₹ 4800 (taxable value). Retailer sold it to a customer for ₹ 5200 (taxable value). Rate of GST is 12%. Complete the following activity to find the payable CGST and SGST at each stage of trading. (Textbook pg. no. 92) Solution:

Trading chain:



GST payable by manufacturer = ₹ 480

Output tax of wholesaler

- = 12% of 4800 = 12100 × 4800 = ₹ 576
- :. GST payable by wholesaler
- = Output tax Input tax
- = 576 480
- = ₹ 96

Output tax of retailer = 12% of 5200

$$= \boxed{\frac{12}{100} \times 5200} = ₹ 624$$

GST payable by Retailer

- = Output tax of retailer ITC of retailer
- = 624 576
- = ₹48

Statement of GST payable at each stage of trading:

Individual	GST payable	CGST payable	SGST payable
Manufacturer	₹ 480	₹ 240	₹ 240
Wholesaler	₹ 96	₹ 48	₹ 48
Retailer	₹ 48	₹ 24	₹ 24
Total	₹ 624	₹ 312	₹ 312

Question 2. Suppose in the month of July the output tax of a trader is equal to the input tax, then what is his payable GST?(Textbook pg. no. 93) Answer:

Here, output tax is same as input tax.

: Trader payable GST will be zero.

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Question 3.

Suppose in the month of July output tax of a trader is less than the input tax then how to compute his GST? (Textbook pg. no. 93)

Answer

If output tax of a trader in a particular month is less than his input tax, then he won't be able to get entire credit for his input tax. In such a case his balance credit will be carried forward and adjusted against the subsequent transactions.

Practice Set 4.3 Algebra 10th Std Maths Part 1 Answers Chapter 4 Financial Planning

Practice Set 4.3 Financial Planning Question 1. Complete the following table by writing suitable numbers and words.

i.	₹ 100	Par	
ii	1	Premium ₹ 500	₹ 575

Solution:

i. Here, share is at par.

 \therefore MV = FV

∴ MV = ₹ 100

ii. Here, Premium = ₹ 500, MV = ₹ 575

∴ FV + Premium = MV

 \therefore FV + 500 = 575

 $\therefore FV = 575 - 500$

∴ FV = ₹ 75

iii. Here, FV = ₹ 10, MV = ₹ 5

 $\therefore FV > MV$

Share is at discount.

FV - Discount = MV

 \therefore 10 – Discount = 5

 \therefore 10 – 5 = Discount

₹ Discount = ₹ 5

Sr.No	FV	Share is at	MV
i.	₹ 100	Par	₹ 100
ii.	₹ 75	Premium ₹ 500	₹ 575
iii.	₹ 10	Discount = ₹ 5	₹5

Practice Set 4.3 Question 2. Mr. Amol purchased 50 shares of Face value ₹ 100 when the Market value of the share was ₹ 80. Company had given 20% dividend. Find the rate of return on investment. Solution:

Here, MV = ₹ 80, FV = ₹ 100,

Number of shares = 50, Rate of dividend = 20%

- ∴ Sum invested = Number of shares × MV
- = 50 × 80
- = ₹ 4000

Dividend per share = 20% of FV

- = 20100 × 100 = ₹ 20
- \therefore Total dividend of 50 shares = 50 × 20
- = ₹ 1000

Now, rate of return =
$$\frac{\text{Total dividend}}{\text{Sum invested}} \times 100$$

= $\frac{1000}{4000} \times 100$
= 25%

∴ Rate of return on investment is 25%.

Practice Set 4.3 Question 3.

Joseph purchased following shares, Find his total investment.

Company A : 200 shares, FV = 2, Premium = 18.

Company B : 45 shares, MV = ₹ 500 Company C : 1 share, MV = ₹ 10,540

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Solution:

For company A:

FV = ₹ 2, premium = ₹ 18,

Number of shares = 200

∴ MV = FV+ Premium

= 2 + 18

= ₹ 20

Sum invested = Number of shares × MV

 $= 200 \times 20$

= ₹ 14000

For company B:

MV = ₹ 500, Number of shares = 45

Sum invested = Number of shares \times MV

= 45 × 500 = ₹ 22,500

For company C:

MV = ₹ 10,540, Number of shares = 1

: Sum invested = Number of shares × MV

 $= 1 \times 10540$

= ₹ 10,540

: Total investment of Joseph

= Investment for company A + Investment for company B + Investment for company C

= 4000 + 22,500 + 10,540

= ₹ 37040

∴ Total investment done by Joseph is ₹ 37,040.

Practice Set 4.3 Class 7th Question 4.

Smt. Deshpande purchased shares of FV ₹ 5 at a premium of ₹ 20. How many shares will she get for ₹ 20,000?

Solution:

Here, FV = ₹ 5, Premium = ₹ 20,

Sum invested = ₹ 20,000

∴ MV = FV + Premium

= 5 + 20

∴ MV = ₹ 25

Now, sum invested = Number of shares \times MV

Number of shares =
$$\frac{\text{Sum invested}}{\text{MV}}$$

$$= \frac{20,000}{25}$$

$$= 800$$

∴ Smt. Deshpande got 800 shares for ₹ 20,000.

Question 5.

Shri Shantilal has purchased 150 shares of FV ₹ 100, for MV of ₹ 120. Company has paid dividend at 7%. Find the rate of return on his investment.

Solution:

Here, FV = ₹ 100, MV = ₹ 120

Dividend = 7%, Number of shares = 150

 \therefore Sum invested = Number of shares \times MV

= 150 × 120 = ₹ 18000

Dividend per share = 7% of FV

= 7100 × 100 = ₹ 7

.. Total dividend of 150 shares

= 150 × 7 = ₹ 1050

Now, rate of return =
$$\frac{\text{Total dividend}}{\text{Sum invested}} \times 100$$

= $\frac{1050}{18000} \times 100 = 5.83\%$

 \therefore Rate of return on investment is 5.83%.

4.3 Class 10 Question 6. If the face value of both the shares is same, then which investment out of the following is more profitable?

Company A : dividend 16%, MV = ₹ 80,

Company B : dividend 20%, MV = ₹ 120.

Solution:

For company A:

MV = ₹ 80, Dividend = 16%

Dividend = 16% of FV

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$$= \frac{16}{100} \times x = ₹ 0.16x$$
Rate of return = $\frac{\text{Dividend}}{\text{Sum invested}} \times 100$

$$= \frac{0.16x}{80} \times 100 = ₹ 0.2x$$

For company B:

MV = ₹ 120, Dividend = 20%
Dividend = 20% of FV
=
$$\frac{20}{100} \times x = ₹ 0.2x$$

Rate of return = $\frac{\text{Dividend}}{\text{Sum invested}} \times 100$
= $\frac{0.2x}{120} \times 100 = ₹ 0.17x$

- : Rate of return of company A is more.
- : Investment in company A is profitable.

Question 1.

Smita has invested ₹ 12,000 and purchased shares of FV ₹ 10 at a premium of ₹ 2. Find the number of shares she purchased. Complete the given activity to get the answer. (Textbook pg. no. 101.) Solution:

Ans: Smita has purchased 1000 shares.

Practice Set 4.4 Algebra 10th Std Maths Part 1 Answers Chapter 4 Financial Planning

Question 1.

Market value of a share is ₹ 200. If the brokerage rate is 0.3% then find the purchase value of the share.

Solution:

Here, MV = ₹ 200, Brokerage = 0.3%

Brokerage = 0.3% of MV

- = 0.3100 × 200
- = ₹ 0.6
- ∴ Purchase value of the share = MV + Brokerage
- = 200 + 0.6
- = ₹ 200.60
- ∴ Purchase value of the share is ₹ 200.60.

Question 2.

A share is sold for the market value of ₹ 1000. Brokerage is paid at the rate of 0.1%. What is the amount received after the sale? Solution:

Here, MV = ₹ 1000, Brokerage = 0.1%

- \therefore Brokerage = 0.1 % of MV
- = 0.1100 × 1000
- ∴ Brokerage = ₹1
- ∴ Selling value of the share = MV Brokerage
- = 1000 1
- = ₹ 999
- ∴ Amount received after the sale is ₹ 999.

Question 3.

Fill in the blanks given in the contract note of sale-purchase of shares.

$$(B - buy S - sell)$$

- Arjun
- Digvijay

No. of shares	100 B	75 S
MV of share	₹ 45	₹ 200
Total value		
Brokerage 0.2%		
9% CGST on brokerage		
9% SGST on brokerage		
Total value of shares		

Solution:

For buying shares:

Here, Number of shares = 100,

MV of one share = ₹45

- \therefore Total value = 100 × 45
- = ₹ 4500

Brokerage= 0.2% of total value 0.2

= 0.2100 × 4500

CGST = 9% of brokerage

= 9100 × 9 = ₹ 0.81

But, SGST = CGST

- ∴ SGST = ₹ 0.81
- ∴ Purchase value of shares
- = Total value + Brokerage
- = 4500 + 9 + 0.81 + 0.81
- = ₹ 4510.62

ii. For selling shares:

Here, Number of shares = 75,

MV of one share = ₹ 200

- \therefore Total value = 75 × 200
- = ₹ 15000

Brokerage = 0.2% of total value

- $= 0.2100 \times 15000$
- = ₹ 30

CGST = 9% of brokerage

= 9100 × 30 = ₹ 2.70

But, SGST = CGST

- ∴ SGST = ₹ 2.70
- ∴ Selling value of shares = Total value (Brokerage + CGST + SGST)
- = 15000 (30 + 2.70 + 2.70)
- = 15000 35.40
- = ₹ 14964.60

No. of shares	100 B	75 S
MV of share	₹ 45	₹ 200
Total value	₹ 4500	₹ 15000
Brokerage 0.2%	₹9	₹ 30
9% CGST on brokerage	₹ 0.81	₹ 2.70
9% SGST on brokerage	₹ 0.81	₹ 2.70
Total value of shares	₹4510.62	₹ 14964.60

Question 4.

Smt. Desai sold shares of face value ₹ 100 when the market value was ₹ 50 and received ₹ 4988.20. She paid brokerage 0.2% and GST on brokerage 18%, then how many shares did she sell?

Solution:

Here, face value of share = ₹ 100,

MV = ₹ 50,

Selling price of shares = ₹ 4988.20,

Rate of brokerage = 0.2%, Rate of GST = 18%

- Arjun
- Digvijay

Brokerage = 0.2% of MV

$$= \frac{0.2}{100} \times 50$$
$$= ₹ 0.1$$

GST = 18% of brokerage

$$= \frac{18}{100} \times 0.1$$
$$= ₹ 0.018$$

Selling price of one share

- = MV (Brokerage + GST)
- =50-(0.1+0.018)
- =50-0.118
- = ₹ 49.882

:. Number of shares

- = Selling price of all shares
- Selling price of one share
- $=\frac{4988.20}{49.882}$
- = 100
- .. Smt. Desai sold 100 shares.

Question 5.

Solution:

For purchasing shares:

Here, FV = ₹ 50, Number of shares = 200,

premium = ₹ 100

MV of 1 share = FV + premium

- = 50 + 100
- = ₹ 150
- ∴ MV of 200 shares = 200 × 150 = ₹ 30,000
- ∴ Mr. D'souza invested amount
- = MV of 200 shares + brokerage
- = 30,000 + 20
- = ₹ 30,020

For selling shares:

Rate of dividend = 50 %, FV = ₹ 50,

brokerage = ₹ 20

Number of shares = 200

Dividend per share = 50% of FV

- = *50100* × 50
- = ₹ 25
- ∴ Dividend of 200 shares = 200 × 25 = ₹ 5,000

Now, 100 shares are sold at a discount of ₹ 10.

- ∴ Selling price of 1 share = FV discount
- = 50 10
- = ₹ 40
- \therefore Selling price of 100 shares = 100 \times 40
- = ₹ 4000
- : Amount obtained by selling 100 shares
- = selling price brokerage
- = 4000 20
- = ₹ 3980

Also, remaining 100 shares are sold at premium of ₹ 75.

- ∴ selling price of 1 share = FV + premium
- = 50 + 75
- = ₹ 125
- \therefore selling price of 100 shares = 100 × 125
- = ₹ 12,500
- ∴ Amount obtained by selling 100 shares
- = selling price brokerage
- = 12,500 20
- = ₹ 12,480
- ∴ Mr D'souza income = 5000 + 3980 + 12480
- = ₹ 21460

Now, Mr D'souza invested amount > income

- : Mr D'souza incurred a loss.
- ∴ Loss = amount invested income
- = 30020 21460

- Arjun
- Digvijay
- = ₹ 8560
- ∴ Mr. D'souza incurred a loss of ₹ 8560.

Question 1.

Nalinitai invested ₹ 6024 in the shares of FV ₹ 10 when the Market Value was ₹ 60. She sold all the shares at MV of ₹ 50 after taking 60% dividend. She paid 0.4% brokerage at each stage of transactions. What was the total gain or loss in this transaction? (Textbook pg. no. 106) Solution:

Rate of GST is not given in the example, so it is not considered.

For Purchased Shares:

FV = ₹ 10, MV = ₹ 60

Brokerage per share
$$=\frac{0.4}{100} \times 60 = \boxed{\text{₹ 0.24}}$$

∴ Cost of one share =
$$60 + 0.24 = | ₹ 60.24 |$$

$$\therefore \text{ Number of shares} = \frac{6024}{60.24} = 100$$

For sold Shares:

$$\therefore \quad \text{Brokerage per share} = \frac{0.4}{100} \times 50 = \boxed{\text{₹ 0.20}}$$

∴ Selling price per share =
$$50 - 0.20$$

= $\boxed{₹ 49.8}$

$$\therefore \quad \text{Selling price of 100 shares} = 100 \times 49.80$$
$$= \boxed{7 4980}$$

Dividend received 60%

∴ Dividend per share =
$$\frac{60}{100} \times 10 = ₹ 6$$

∴ Nalinitai's loss is ₹ 444.

Question 2.

In the above example if GST was paid at 18% on brokerage, then the loss is ₹ 451.92. Verify whether you get the same answer. (Textbook pg, no. 107)

Solution:

For Purchased Shares:

FV = 70, MV = 60, sum invested = 6024, brokerage = 0.4 %, GST = 18%

Brokerage per share = *0.4100* × 60 = ₹ 0.24 100

GST per share = $18100 \times 0.24 = ₹ 0.0432$

$$\therefore$$
 Cost of one share = 60 + 0.24 + 0.0432

= ₹ 60.2832

∴ Cost of 100 shares = 100 × 60.2832 = ₹ 6028.32

For sold shares:

FV = ₹ 10, MV = ₹ 50, brokerage = 0.4 %,

GST = 18%, Number of shares = 100

Brokerage per share = *0.4100* × 50 = ₹ 0.20

GST per share = 18100 × 0.20 = ₹ 0.036

Selling price per share = 50 - 0.2 - 0.036

= ₹ 49.764

Selling price of 100 shares = 100×49.764

= ₹ 4976.4

Dividend received 60 %

∴ Dividend per share = 60100 × 10 = ₹ 6

Dividend on 100 shares = 6 × 100 = ₹ 600

∴ Nalinitai's income = 4976.4 + 600 = ₹ 5576.4

∴ Cost of 100 shares = ₹ 6028.32

∴ Loss = 6028.32 – 5576.4 = ₹ 451.92

∴ Nalinitai's loss is ₹ 451.92.

CGST = 14% of taxable value

= 14100 × 22500

Problem Set 4A Algebra 10th Std Maths Part 1 Answers Chapter 4 Financial Planning

Write the correct alternative for each of the following.
i. Rate of GST on essential commodities is (A) 5% (B) 12% (C) 0% (D) 18% Answer: (C)
ii. The tax levied by the central government for trading within state is (A) IGST (B) CGST (C) SGST (D) UTGST Answer: (B)
iii. GST system was introduced in our country from (A) 31st March 2017 (B) 1st April 2017 (C) 1st January 2017 (D) 1st July 2017 Answer:
iv. The rate of GST on stainless steel utensils is 18%, then the rate of state GST is (A) 18% (B) 9% (C) 36% (D) 0.9% Answer: (B)
v. In the format of GSTIN there are alpha-numerals. (A) 15 (B) 10 (C) 16 (D) 9 Answer: (A)
vi. When a registered dealer sells goods to another registered dealer under GST, then this trading is termed as (A) BB (B) B2B (C) BC (D) B2C Answer: (B)
10th Class Algebra Problem Set 4a Question 2. A dealer has given 10% discount on a showpiece of ₹ 25,000. GST of 28% was charged on the discounted price. Find the total amount show the tax invoice. What is the amount of CGST and SGST. Solution: Printed price of showpiece = ₹ 25,000, Rate of discount = 10% ∴ Amount of discount = 10% of printed price = 10100 × 25000 = ₹ 2500 ∴ Taxable value = Printed price – discount = 25,000 – 2500 = ₹ 22,500 Rate of GST = 28% ∴ Rate of CGST = 14% and Rate of SGST = 14%

Allguidesite -- Arjun - Digvijay = ₹ 3150 ∴ CGST = SGST = ₹ 3150 : Total amount of tax invoice = Taxable value + CGST + SGST = 22500 + 3150 + 3150= ₹ 28,800 ∴ The total amount shown in the tax invoice is ₹ 28,800, and the amount of CGST and SGST is ₹ 3150 each.

Financial Planning Problem Set 4a Question 3.

A ready-made garment shopkeeper gives 5% discount on the dress of ₹ 1000 and charges 5% GST on the remaining amount, then what is the purchase price of the dress for the customer?

Solution:

```
Printed price of dress = ₹ 1000
```

Rate of discount = 5%

- ∴ Amount of discount = 5% of printed price
- = 5100 × 1000
- = ₹ 50
- ∴ Taxable value = Printed price discount
- = 1000 50
- = ₹ 950

Rate of GST = 5%

- \therefore GST = 5% of taxable value
- = 5100 × 950
- ∴ GST = ₹ 47.5

Purchase price of the dress

- = Taxable value + GST
- = 950 + 47.5 = ₹ 997.50
- ∴ Purchase price of the dress for the customer is ₹ 997.50.

Question 4.

A trader from Surat, Gujarat sold cotton clothes to a trader in Rajkot, Gujarat. The taxable value of cotton clothes is ₹ 2.5 lacs. What is the amount of GST at 5% paid by the trader in Rajkot?

Solution:

Taxable amount of cotton clothes = ₹ 2.5 lacs,

Rate of GST = 5%

GST = 5% of taxable amount

- = *5100* × 2,50,000
- = ₹ 12500
- ∴ Trader of Rajkot has to pay GST of ₹ 12,500.

Question 5.

Smt. Malhotra purchased solar panels for the taxable value of ₹ 85,000. She sold them for ₹ 90,000. The rate of GST is 5%. Find the ITC of Smt. Malhotra. What is the amount of GST payable by her?

Solution:

Output tax = 5% of 90000

- = *5100* × 90000
- = ₹ 4500

Input tax = 5% of 85000

- = 5100 × 85000
- = ₹ 4250

ITC = ₹ 4250.

- ∴ GST payable = Output tax ITC
- = 4500 4250

GST payable = ₹ 250

: ITC of Smt. Malhotra is ₹ 4250 and amount of GST payable by her is ₹ 250.

Question 6.

A company provided Z-security services for the taxable value of ₹ 64,500. Rate of GST is 18%. Company had paid GST of ₹ 1550 for laundry services and uniforms etc. What is the amount of ITC (input Tax Credit)? Find the amount of CGST and SGST payable by the company. Solution:

Output tax = 18% of 64500

- = 18100 × 64500
- = ₹ 11610

Input tax = ₹ 1550

GST payable = Output tax – ITC

- = 11610 1550
- ∴ GST payable = ₹ 10060

- Arjun

- Digvijay

SGST = CGST =
$$\frac{\text{GST payable}}{2}$$

= $\frac{10060}{2}$
= ₹ 5030

∴ Amount of ITC is ₹ 1550. Amount of CGST and SGST payable by the company is ₹ 5030 each.

Question 7.

A dealer supplied Walky-Talky set of $\stackrel{?}{\sim}$ 84,000 (with GST) to police control room. Rate of GST is 12%. Find the amount of state and central GST charged by the dealer. Also find the taxable value of the set.

Solution:

: .

Let the amount of GST be ₹ x.

Price of walky talky with GST = ₹84,000

Taxable value of walky talky = ₹ (84,000 – x)

Now, GST = 12% of taxable value

$$\therefore x = \frac{12}{100} \times (84,000 - x)$$

$$\therefore 100x = (84,000 - x) \times 12$$

$$\therefore 100x = 84,000 \times 12 - 12x$$

$$\therefore$$
 112x = 84,000 × 12

$$\therefore x = \frac{84,000 \times 12}{112} = 750 \times 12 = \text{ } \text{?} 9000$$

 $100x + 12x = 84,000 \times 12$

Now, CGST = SGST =
$$\frac{GST}{2}$$

= $\frac{9000}{2}$ = ₹ 4500

∴ Amount of state and central GST charged by the dealer is ₹ 4,500 each. Taxable value of the set is ₹ 75,000.

Question 8.

A wholesaler purchased electric goods for the taxable amount of \mathbb{T} 1,50,000. He sold it to the retailer for the taxable amount of \mathbb{T} 1,80,000. Retailer sold it to the customer for the taxable amount of \mathbb{T} 2,20,000. Rate of GST is 18%. Show the computation of GST in tax invoices of sales. Also find the payable CGST and payable SGST for wholesaler and retailer.

Solution: For Wholesaler:

Output tax = 18% of ₹ 1,80,000

- Arjun
- Digvijay

$$= \frac{18}{100} \times 1,80,000 = ₹ 32,400$$
Input tax = 18% of ₹ 1,50,000
$$= \frac{18}{100} \times 1,50,000$$

$$= ₹ 27,000$$

SGST = CGST =
$$\frac{\text{GST payable}}{2}$$

= $\frac{5400}{2}$ = ₹ 2700

For Retailer:

Output tax = 18% of ₹ 2,20,000
=
$$\frac{18}{100} \times 2,20,000$$

= ₹ 39,600

$$SGST = CGST = \frac{GST \text{ payable}}{2}$$
$$= \frac{7200}{2} = ₹ 3600$$

Statement of GST payable at each stage of trading:

Individual	GST	CGST	SGST payable
	payable	payable	
Wholesaler	₹ 5,400	₹ 2,700	₹ 2,700
Retailer	₹ 7,200	₹ 3,600	₹ 3,600
Total	₹ 12,600	₹ 6,300	₹ 6,300

Question 9.

Anna Patil (Thane, Maharashtra) supplied vacuum cleaner to a shopkeeper in Vasai (Mumbai) for the taxable value of ₹ 14,000, and GST rate of 28%. Shopkeeper sold it to the customer at the same GST rate for ₹ 16,800 (taxable value). Find the following:

- i. Amount of CGST and SGST shown in the tax invoice issued by Anna Patil.
- ii. Amount of CGST and SGST charged by the shopkeeper in Vasai.
- iii. What is the CGST and SGST payable by shopkeeper in Vasai at the time of filing the return.

Solution:

i. For Anna Patil:

Output tax = 28% of 14,000

- = 18100 × 14000
- = ₹ 3920
- : CGST = SGST = GST2
- = 39202
- = ₹ 1960
- ∴ Amount of CGST and SGST shown in the tax invoice issued by Anna Patil is ₹ 1960 each.
- ii. For Shopkeeper in Vasai:

Output tax = 28% of 16,800

- = 28100 × 16,800
- = ₹ 4704
- : CGST = SGST = GST2
- = 47042
- = ₹ 2352
- ∴ Amount of CGST and SGST charged by the shopkeeper in Vasai is ₹ 2352 each.

iii. ITC = ₹ 3920

GST payable by shopkeeper in Vasai

- = Output tax ITC
- = 4704 3920
- = ₹ 784

- Arjun
- Digvijay

$$CGST = SGST = \frac{GST \text{ payable}}{2}$$

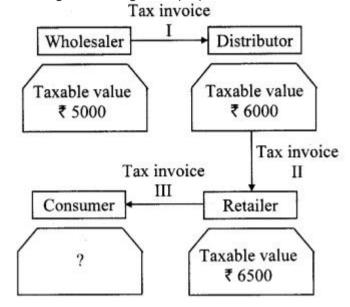
$$= \frac{784}{2}$$

$$= ₹ 392$$

∴ CGST and SGST payable by shopkeeper in Vasai at the time of filing the return is ₹ 392 each.

Question 10.

For the given trading chain prepare the tax invoice I, II, III. GST at the rate of 12% was charged for the article supplied.



- i. Prepare the statement of GST payable under each head by the wholesaler, distributor and retailer at the time of filing the return to the government.
- ii. At the end what amount is paid by the consumer?
- iii. Write which of the invoices issued are B2B and B2C.

Solution:

i. For wholesaler:

Output tax = 12% of 5000

= 12100 × 5000 = ₹ 600

For Distributor:

Output Tax = 12% of 6000

= 12100 × 6000 = ₹ 720

ITC = ₹ 600

 \therefore GST payable = Output tax – ITC

= 720 - 600

= ₹ 120

For Retailer:

Output tax = 12 % of 6500

= 12100 × 6500 = ₹ 780

ITC = ₹ 720

- ∴ GST payable = Output tax ITC
- = 780 − 720 = ₹ 60

Statement of GST payable at each stage of trading:

Individual	GST payable	CGST payable	SGST payable
Wholesaler	₹ 600	₹ 300	₹ 300
Distributor	₹ 120	₹ 60	₹ 60
Retailer	₹ 60	₹ 30	. ₹30
Total	₹ 780	₹ 390	₹ 390

- ii. ITC for consumer = ₹ 780
- : Amount paid by consumer
- = taxable value + ITC
- = 6500 + 780 = 7300
- = ₹ 7280
- ∴ Amount paid by the consumer is ₹ 7280.

iii. B2B = Wholesaler to Distributor

B2B = Distributor to Retailer

B2C = Retailer to Consumer

Financial Planning Class 10 Problem Set 4b

∴ Sum invested = Number of shares × MV

= 50 × 180 = ₹ 9000

Problem Set 4B Algebra 10th Std Maths Part 1 Answers Chapter 4 Financial Planning

Question 1. Write the correct alternative for the following questions. i. If the Face Value of a share is ₹ 100 and Market value is ₹ 75, then which of the following statement is correct? (A) The share is at premium of ₹ 175 (B) The share is at discount of ₹ 25 (C) The share is at premium of ₹ 25 (D) The share is at discount of ₹ 75 Answer: (B) ii. What is the amount of dividend received per share of face value ₹ 10 if dividend declared is 50%. (A) ₹ 50 (B) ₹ 5 (C) ₹ 500 (D) ₹ 100 Answer: Dividend = 10 × *50100* = ₹ 5 iii. The NAV of a unit in mutual fund scheme is ₹ 10.65, then find the amount required to buy 500 such units. (A) 5325 (B) 5235 (C) 532500 (D) 53250 Answer: (A) iv. Rate of GST on brokerage is ____ (A) 5% (B) 12% (C) 18% (D) 28% Answer: (C) v. To find the cost of one share at the time of buying the amount of Brokerage and GST is to be _____ MV of share. (A) added to (B) subtracted from (C) Multiplied with (D) divided by Answer: (A) Problem Set 4b Algebra Class 10 Question 2. Find the purchase price of a share of FV ₹ 100 if it is at premium of ₹ 30. The brokerage rate is 0.3%. Solution: Here, Face Value of share = ₹ 100, premium = ₹ 30, brokerage = 0.3% MV = FV + Premium= 100 + 30= ₹ 130 Brokerage = 0.3% of MV = *0.3100* × 130 = ₹ 0.39 Purchase price of a share = MV + Brokerage = 130 + 0.39= ₹ 130.39 Purchase price of a share is ₹ 130.39. Question 3. Prashant bought 50 shares of FV ₹ 100, having MV ₹ 180. Company gave 40% dividend on the shares. Find the rate of return on investment. Here, Number of shares = 50, FV = ₹ 100, MV = ₹ 180, rate of dividend = 40%

- Arjun
- Digvijay

Dividend per share = 40% of FV

= 40100 × 100

Dividend = ₹40

- \therefore Total dividend on 50 shares = 50 × 40
- = ₹ 2000

Now, rate of return =
$$\frac{\text{Total dividend}}{\text{Sum invested}} \times 100$$

= $\frac{2000}{9000} \times 100$
= 22.2%

: Rate of return on investment is 22.2%.

Question 4.

Find the amount received when 300 shares of FV ₹ 100, were sold at a discount of ₹ 30.

Solution:

Here, FV = ₹ 100, number of shares = 300,

discount = ₹ 30

MV of 1 share = FV – Discount

- = 100 30 = ₹ 70
- \therefore MV of 300 shares = 300 \times 70
- = ₹ 21,000
- ∴ Amount received is ₹21,000.

Question 5.

Find the number of shares received when ₹ 60,000 was invested in the shares of FV ₹ 100 and MV ₹ 120.

Solution:

Here, FV = ₹ 100, MV = ₹ 120,

Sum invested = ₹ 60,000

Number of shares =
$$\frac{\text{Sum invested}}{\text{MV}}$$
$$= \frac{60,000}{120}$$
$$= 500$$

: Number of shares received were 500.

Question 6.

Smt. Mita Agrawal invested ₹ 10,200 when MV of the share is ₹ 100. She sold 60 shares when the MV was ₹ 125 and sold remaining shares when the MV was ₹ 90. She paid 0.1% brokerage for each trading. Find whether she made profit or loss? and how much? Solution:

For purchasing shares:

Here, sum invested = ₹ 10,200, MV = ₹ 100

∴ No. of shares =
$$\frac{\text{Sum invested}}{\text{MV}} = \frac{10,200}{100}$$

= ₹ 102

Brokerage = 0.1% of sum invested
=
$$\frac{0.1}{100}$$
 × 10200 = ₹ 10.2

- :. Purchase value of 102 shares
 - = sum invested + brokerage
 - = 10200 + 10.2
 - = ₹ 10210.2

For selling shares:

60 shares sold at MV of ₹ 125.

- \therefore MV of 60 shares = 125 \times 60
- = ₹ 7500

Brokerage = $0.1100 \times 7500 = ₹7.5$

 \therefore Sale value of 60 shares = 7500 − 7.5 = ₹ 7492.5

Now, remaining shares = 102 - 60 = 42

But 42 shares sold at MV of ₹ 90.

- ∴ MV of 42 shares = 42 × 90 = ₹ 3780
- ∴ Brokerage = $0.1100 \times 3780 = ₹3.78$
- ∴ Sale value of 42 shares = 3780 3.78 = ₹ 3776.22

Total sale value = 7492.5 + 3776.22 = ₹ 11268.72

Since, Purchase value < Sale value

- ∴ Profit is gained.
- ∴ Profit = Sale value Purchase value
- = 11268.72 10210.2
- = ₹ 1058.52
- ∴ Smt. Mita Agrawal gained a profit of ₹ 1058.52.

- Arjun

- Digvijay

Question 7. Market value of shares and dividend declared by the two companies is given below.

Face value is same and it is 7 100 for both the shares. Investment in which company is more profitable?

i. Company A – ₹ 132,12%

ii Company B – ₹ 144,16%

Solution:

For company A:

FV = ₹ 100, MV = ₹ 132,

Rate of dividend = 12%

Dividend = 12% of FV

$$= \frac{12}{100} \times 100 = ₹ 12$$

Rate of return =
$$\frac{\text{Dividend}}{\text{Sum invested}} \times 100$$

= $\frac{12}{132} \times 100$
= 9.09%

For company B:

• Rate of dividend = 16%

Dividend =
$$16\%$$
 of FV
= $\frac{16}{100} \times 100$

Rate of return =
$$\frac{\text{Dividend}}{\text{Sum invested}} \times 100$$

= $\frac{16}{144} \times 100$
= 11.11 %

- : Rate of return of company B is more.
- : Investment in company B is more profitable.

Question 8. Shri. Aditya Sanghavi invested ₹ 50,118 in shares of FV ₹ 100, when the market value is ₹ 50. Rate of brokerage is 0.2% and Rate of GST on brokerage is 18%, then How many shares were purchased for ₹ 50,118? Solution:

Here, FV = ₹ 100, MV = ₹ 50

Purchase value of shares = ₹ 50118,

Rate of brokerage = 0.2%, Rate of GST = 18%

Brokerage = 0.2% of MV

$$=\frac{0.2}{100}\times 50$$

Brokerage = ₹ 0.1

GST = 18% of brokerage

$$= \frac{18}{100} \times 0.1$$
$$= ₹ 0.018$$

Purchase value of a share

$$=50+0.1+0.018$$

$$= 50.118$$

Number of shares =
$$\frac{\text{Purchase value of all shares}}{\text{Purchase value of one share}}$$
$$= \frac{50118}{50.118}$$
$$= 1000$$

∴ 1000 shares were purchased for ₹ 50,118.

Question 9. Shri. Batliwala sold shares of ₹ 30,350 and purchased shares of ₹ 69,650 in a day. He paid brokerage at the rate of 0.1% on sale and purchase. 18% GST was charged on brokerage. Find his total expenditure on brokerage and tax. Solution:

Total amount = sale value + Purchase value

= 30350 + 69650

= ₹ 1,00,000

Rate of Brokerage = 0.1 %

Brokerage = 0.1 % of 1,00,000

 $= 0.1100 \times 1,00,000$

= ₹ 100

Rate of GST = 18%

 \therefore GST = 18 % of brokerage

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- Arjun
- Digvijay
- = 18100 × 100
- ∴ GST = ₹ 18

Total expenditure on brokerage and tax

- = 100 + 18 = ₹ 118
- ∴ Total expenditure on brokerage and tax is ₹ 118.

Alternate Method:

Brokerage = 0.1 %, GST = 18%

At the time of selling shares:

Total sale amount of shares = ₹ 30,350

Brokerage = 0.1% of 30,350

$$= \frac{0.1}{100} \times 30,350$$

$$= 730,35$$

= ₹ 30.35

GST = 18% of ₹ 30.35

$$= \frac{18}{100} \times 30.35$$
$$= ₹ 5.463$$

For purchasing shares:

Total purchase amount of shares = ₹ 69,650

Brokerage = 0.1% of 69,650

- $= 0.1100 \times 69650$
- = ₹ 69.65

GST = 18% of 69.65

- = 18100 × 69.65
- = ₹ 12.537
- : Total expenditure on brokerage and tax = Brokerage and tax on selling + Brokerage and tax on purchasing
- = (30.35 + 5.463) + (69.65 + 12.537)
- = ₹ 118
- ∴ Total expenditure on brokerage and tax is ₹ 118.

Question 10. Sint. Aruna Thakkar purchased 100 shares of FV 100 when the MV is ₹ 1200. She paid brokerage at the rate of 0.3% and 18% GST on brokerage. Find the following -

- i. Net amount paid for 100 shares.
- ii. Brokerage paid on sum invested.
- iii. GST paid on brokerage.
- iv. Total amount paid for 100 shares.

Solution:

Here, FV = ₹ 100,

Number of shares = 100, MV = ₹ 1200

Brokerage = 0.3%, GST = 18%

i. Sum invested = Number of shares \times MV

- = 100 × 1200 = ₹ 1,20,000
- ∴ Net amount paid for 100 shares is ₹ 1,20,000.
- ii. Brokerage = 0.3% of sum invested
- = *o.*31*oo* × 1,20,000 = ₹ 360
- ∴ Brokerage paid on sum invested is ₹ 360.

iii. GST = 18% of brokerage

- = 18100 × 360 = ₹ 64.80
- ∴ GST paid on brokerage is ₹ 64.80.

iv. Total amount paid for 100 shares

- = Sum invested + Brokerage + GST
- = 1,20,000 + 360 + 64.80
- = ₹ 1,20,424.80
- ∴ Total amount paid for 100 shares is ₹ 1,20,424.80.

Question 11. Smt. Anagha Doshi purchased 22 shares of FV ₹ 100 for Market Value of ₹ 660. Find the sum invested. After taking 20% dividend, she sold all the shares when market value was ₹ 650. She paid 0.1% brokerage for each trading done. Find the percent of profit or loss in the share trading. (Write your answer to the nearest integer)

Solution:

For purchasing shares:

Here, FV = ₹ 100, MV = ₹ 660, Number of shares = 22, rate of brokerage = 0.1%

Sum invested = $MV \times Number$ of shares

- $= 660 \times 22$
- = ₹ 14,520

Brokerage = 0.1 % of sum invested

- = *0.1100* × 14520 = ₹ 14.52
- : Amount invested for 22 shares
- = Sum invested + Brokerage

- Arjun
- Digvijay
- = 14520 + 14.52
- = ₹ 14534.52

For dividend:

Rate of dividend = 20%

∴ Dividend per share = 20 % of FV

$$=\frac{20}{100}$$
 × 100 = ₹ 20

 \therefore Dividend of 22 shares = 20×22

For selling shares:

MV = ₹ 650, rate of brokerage = 0.1%

MV of 22 shares =
$$22 \times 650$$

Brokerage = 0.1 % of 14300

$$= \frac{0.1}{100} \times 14300 = ₹ 14.30$$

Smt. Anagha income

- = Dividend + MV of 22 shares Brokerage
- =440 + 14300 14.30
- = ₹ 14725.7

Since, income > Amount invested

- .. Profit is gained.
- ∴ Profit = Income Amount invested

Profit Percentage =
$$\frac{\text{Profit}}{\text{Amount invested}} \times 100$$

= $\frac{191.18}{14534.52} \times 100 = 1.31 \%$

: Percentage of profit in the share trading is 1 % (nearest integer).

Alternate Method:

For purchasing share:

Here, FV = ₹ 100, MV = ₹ 660, Number of shares = 22, rate of brokerage = 0.1%

Sum invested = $MV \times Number$ of shares

- $= 660 \times 22$
- = ₹ 14,520

Brokerage = 0.1 % of MV

= 0.1100 × 660 = ₹ 0.66

Amount invested for 1 share = 660 + 0.66

= ₹ 660.66

For dividend:

Rate of dividend = 20%

Dividend = 20% of FV = 20100 × 100 = ₹ 20

For selling share:

MV = ₹ 650, rate of brokerage = 0.1%

Brokerage = 0.1 % of MV

= 0.1100 × 650 = ₹ 0.65 100

Amount received after selling 1 share

- = 650 0.65 = 649.35
- : Amount received including divided
- = selling price of 1 share + dividend per share
- = 649.35 + 20
- = ₹ 669.35

Since, income > Amount invested

- ∴ Profit is gained.
- ∴ profit = 669.35 660.66 = ₹8.69

Profit Percentage = 8.69660.66 × 100= 1.31%

 $\mathrel{\raisebox{.3ex}{$.$}}$ Percentage of profit in the share trading is 1 % (nearest integer).