6) Find the number of shares if
(a) the total dividend at 8% on the shares with face value Rs. 10 was Rs. 240.
(b) the strial dividend of 19% as the Ts. 100 shares was Ts. 4,5/90 (c) the strial dividend of 19% as the Ts. 2 shares was Ts. 4,5/90 (c) the strial dividend of 19% as the Ts. 2 shares was Ts. 6/12.66
D) The local element of 1/2 and the risk E state of the post (1/2 and
7) Find the market price of a share at the time of purchase, if
(a) an investment of Fix.104.350 in 20% Fix.100 shares gave a total divided of Fix.4,000.
newson or res. 9.200. (b) an investment of Rs. 2.2.110 in Rs. 10 shares gave a total dividend of Rs.
297 at 9% rate of dividend.
Selon: HBP=7 Janyte= 1,09350, RBT=207, FV=80100, TD=9000
TD = RODX F V X NO & Share
10 = 813 x x x x x x 40 x 40 x 40 x 40 x 40 x 4
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Invit = 1948 × No of thoses 1,09250=MVP × 450
1,0955c MVP × 450
' - MVP = 109554 = 248 459
(B) Find the fate value of a share if
a) Sharres purchased at a market price of Pts. 100 cashi by investing 10s. 4.44.0.00 gave a test bill wideling of 10s. 11/2/10 of 40° rate of 6 inviting.
(b) an investment of Rs. 4,00,000 part in to purchase 8% shares anoted at Rs. 15
early, correct a total shifteded of 185 4,600.
16 () (FV2) , MV = 180) July = 4, H) 200, TO = 1470, RD = 6%. TO = 8.0 X = 12 X To aff \$4.00.00 July = My P X = 10 aff \$4.00.00
7.0 = R(0) × 1 × v × no m 3/40000
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
$TD = Rap \times FV \times W + Manuel$
10 - 10 x 1 v x 1
100
∴ evs 1470 x log
$F_{V} = \frac{G \times 2.58}{10}$
9) Find the amount required to purchase Ps, 5 shares with a total face value of
Rs. 17,700 at 20% premium per share. The brokerage is 0.30% on the market
price. = not = ?, F v= 10.5, TO = 17,700, 20% premium our those
MUP: EV + 217. of EV V MOP: 9 + 20 x 9 = 9 + 1 < N6 TEV: FUGI Shore x No of
Pf of theme = MUP of three + Anderson = 17700 PAG + ROB X MUP = 3 9 COLD
5 86 + 788 × MUP
= 86 + 196
= A6+ 0-007 PFA Start 6-007
That I find the way to be the the
= 6.018 x 3540 °
· 2/3/03-72

- 14) Ms Srilekha Wagh purchased 360 shares of Religion.Cóm Ltd. quotéd at Rs. 90 each through Money Maker Broker. If her total expenditure came to Rs. 32,513.40, find the percentage brokerage.
- Choice A) 0.5% B) 0.65% C) 0.3% D) 0.35%

- 17) Mr. Adani sold some shares at a market price of Rs 120 each and paid 0.10% brokerage. If he received a net amount of Rs 47,952, find the number of shares sold.
- Choice A) 350 B) 300 C) 400 D)

19) Mr. Kabir Murty asked his broker IDIDI direct to sell 4000 shares of Babe Coat Rs 1,024 each. If he received net Rs. 40,77,568 at the end, what was the brokerage percentage paid by him?

1. 0.35% B) 0.33% C) 0.45% D) 0.75%

Soln: - No of shares = 4000, MVS = RS1024, Total net amount = M0,77,568

Let n' = nate of brokerage.

Total Net ant: on all shares = Net ant: on) Share × No of shares 40,77568 = Net ant: on) Share × 4000

.'. Net ant on) = 4077568 share 4000

_ 1019-392

Now Net unt on 1 share = MUS - Brokerage 1019-392 = 1024 - 21 × 1024

10.24n = 1024 - 1019.392

 $10.24\pi = 4.608$ 10.24 = 4.608

n = 0.45

:. ny = 0.45"

21) Mr. Shankar Varma purchased 400 shares of Hard-Comp Coat at Rs.336 each and sold them at Rs 360 on the same day. The brokerage was nil on purchase and 0.1% on sale. Find the net amount received by Mr. Varma.

Choice

- A) 9456 B) 10354 C) 9464 D) 10456
- 22) Mr. Kishor Nanavati purchased some shares of a company at Rs 210 and sold them after 3 months at Rs 250 each. The brokerage was 0.2% on the purchase and 0.3% on the sale. Find the number of shares traded, if the amount received by Mr. Nanavati was Rs. 27,181.

Choice A) 550 B) 700

Soln: MUP = 210, MUS = 250, ROBP=0.2%, ROBS=0.3%. Net ant received on all shares = 27181. No of shares = h = ? PP of 1 share = MVP + Brokerage = 210 + 0.2 × 210 = 210 + 0.42

```
PP of 1 share = MVP + Brokerage
= 210 + 0.2 × 210 = 210 + 0.42
PP of 1 Share 210.42
Sale value of 1 share = MVS - Brokerage
= 250 - \frac{0.3}{100} \times 250
                      = 250 - 0.75
                      = 249.25
Net ant received = Sale value of 1 share - PP of 1 share
   on I share
                    = 249.25 - 210.42
Met ant received = 38.83
      on I share
Net- ant: neceived = (Net ant-neceived) × No. of shares on ) share
      on all Shares
                     = 38.83 × h
      27181
                       = <u>2718</u>]
<u>38-83</u>
                       - 700
```

23) Ms. Madhu Soman purchased some shares at Rs 350 each and sold them after a year at Rs. 360 each. The brokerage paid was 0.2% on the purchase and the same percentage on the sale. She received a net amount of Rs. 5,148 through the transactions. Find the number of shares traded.

Choice: A) 550 B) 650 C) 700 D) 600

- 24) Find the total dividend and the rate of return on investment, if
- (a) Mr. Alok Sharma bought 350 shares of nominal value Rs. 10 at Rs. 50 each and received 8% dividend.

Choice A) 150, 1% B) 200, 1.5% C) 250, 1.6% D) 280, 1.6%

600

Choice A) 150, 1% B) 200, 1.5% C) 250, 1.6% D) 280, 1.6%

(b) Rs 36800 were invested in Rs. 10 shares quoted at Rs. 80 and a 30% dividend was earned.

Choice A)1180, 2.5% B) 1380, 3.75% C) 1260, 2.75% D) 3620, 3%

Solar a) No. of shares = 350, F.V. Rs 10, Mup = Rs 50, RoD = 8%

$$TD = ?$$
, $ROR = ?$
 $TD = ROD \times F. U \times No. of shares$
 $= 8 \times 35$
 $TD = 280$
 $ROR ?. = TD$
 $No. of share \times Mup$
 $= \frac{28p}{35p \times 5p} \times 10p$
 $= \frac{28}{35} \times 2$
 $ROR ?. = 1.6 ?$

24) Find the total dividend and the rate of return on investment, if c) Rs. 37500 invested in 6% Rs 100 shares at 50% above par.

Choice A) 6000, 5% B) 8000, 5% C) 1500, 4% D) 7000, 3%

30h: TD=? ROR=? Inut= 37, 500, ROD=6%, I=V=100

50% above par.

MUP = FV+ 50% of FV

MUP = 100 + 50 × 100 = 100 + 50 = RS 150

Inut= MVP × NO. of Shares

37500 = 150 × NO. of Shares

: No of Shares = 37500 = 250

TD = ROD × F-V × NO. of Shares

= 6 × 100 × 250

= 6 × 250

= 1500

ROR% = TD × 100

ROR% =
$$\frac{TD}{TD} \times 100$$

 $= \frac{1500}{37500} \times 100$
 $= 4\%$

- 25) Find total investment and the rate of return on investment, if
 - a) total dividend income of Rs.200 was earned on some 4% Rs. 10 shares purchased at 60 % above par.

Choice A) 6500,1.5% B) 8000, 2.5% C) 7000, 3% D) 7500, 3.5%

b) a total dividend of Rs. 360 was received on a number of 18% Rs. 5 shares quoted at 10% discount.

Choice A) 1800,15% B) 2400, 25% C) 3000, 30% D) 1800, 20%

28

A) Akshay Pinto sold 400 Rs.10 shares at Rs. 25 that had given him 30% dividend and invested the entire amount in buying Rs. 100 shares of another company at Rs 250 each and received 30% dividend. Find change in his dividend income.

Choice a) 800 b) 1150 c) 1430 d) No change

Soln:
$$N_S = 400$$
, $FV_S = 10$, $MVS_S = RS2S$, $ROD_S = 30\%$.
 $N_P = ?$ $FV_P = 100$, $MVP = RS2S0$, $ROD_P = 30\%$.
 $TD_S = ?$ $TD_P = ?$ $(TD_S - TD_P) = ?$
 $TD_S = ROD_S \times FV_S \times No.$ of shares
 $= 30 \times 10 \times 400$
 $= RS2S0$, $= 30\%$.

Salus value of all 400 shares = MVS_S × No. of shares_S = 25 × 400

= RS 10000

·: Sales value of all 400 shares = PP of all shares

:. PP of all shares = RS 10,000

But PP of all shares = PP of 1 share × No. of shares

PP of all shares = MVP, × hp

10;006 = 256 × hp

:. hp = 10000 = 40

TDp = RODp × FVp × No. of shared p = 30 × 100 × 40

TOp = 201200

Now Change in dividend = TDS - TDP (honge in 1000 - 1200)

B) Ms. Pinky Gala sold fifty of 9% Rs. 100 equity shares at 20% premium and used the entire amount to buy 6% Rs 10 shares at 25% discount. Find the change in the dividend income. Choice a) 110 b) 50 c) 30 d) 80

Soln: $= N_S = 50$, $ROD_S = 9\%$, $FV_S = 100$, 20% premium $N_P = \frac{9}{2}$, $ROD_S = 6\%$, $FV_S = 10$, 25% discount $TD_S = \frac{9}{2}$, $TD_P = \frac{9}{2}$ ($TD_S - TD_P$) = $\frac{9}{2}$ MVS = FV + 20% of $FV_S = 100 + 20 = RS120$ $= 100 + 20 \times 100 = 100 + 20 = RS120$ $= ROD_S \times FV_S \times N_S$

29)	Meena Sanglikar invested 40,000 two stocks, partly in a number of 9 % stock at Rs.120 and the remaining
	in some 6% stock at Rs.160. Her dividend incomes from the two stocks were in the ratio 3:1. Find the
	amounts she invested in the two stocks.

Choice a) 11000, 21000 b) 15000, 25000 c) 240000, 16000 d) 18000, 22000

35) Mr. Daler Singh bought 200 Rs. 5 shares of Self Help Ltd. at Rs. 40 each. After getting a 10% dividend, he sold them at Rs. 41 each. Find his rate of return on Investment.

Choice a) 2.75% b) 3.50% c) 3.25% d) 3.75%

28

A) Akshay Pinto sold 400 Rs.10 shares at Rs. 25 that had given him 30% dividend and invested the entire amount in buying Rs. 100 shares of another company at Rs 250 each and received 30% dividend. Find change in his dividend income.

Choice a) 800 b) 1150 c) 1430 d) No change

Soln:
$$N_S = 400$$
, $FV_S = 10$, $MVS_S = RS2S$, $ROD_S = 30\%$.
 $N_P = ?$ $FV_P = 100$, $MVP = RS2S0$, $ROD_P = 30\%$.
 $TD_S = ?$ $TD_P = ?$ $(TD_S - TD_P) = ?$
 $TD_S = ROD_S \times FV_S \times No.$ of shares
 $= 30 \times 10 \times 400$
 $= RS2S0$, $= 30\%$.

Salus value of all 400 shares = MVS_S × No. of shares_S = 25 × 400

= RS 10000

·: Sales value of all 400 shares = PP of all shares

:. PP of all shares = RS 10,000

But PP of all shares = PP of 1 share × No. of shares

PP of all shares = MVP, × hp

10;006 = 256 × hp

:. hp = 10000 = 40

TDp = RODp × FVp × No. of shared p = 30 × 100 × 40

TOp = 201200

Now Change in dividend = TDS - TDP (honge in 1000 - 1200)

B) Ms. Pinky Gala sold fifty of 9% Rs. 100 equity shares at 20% premium and used the entire amount to buy 6% Rs 10 shares at 25% discount. Find the change in the dividend income. Choice a) 110 b) 50 c) 30 d) 80

Soln: $= N_S = 50$, $ROD_S = 9\%$, $FV_S = 100$, 20% premium $N_P = \frac{9}{2}$, $ROD_S = 6\%$, $FV_S = 10$, 25% discount $TD_S = \frac{9}{2}$, $TD_P = \frac{9}{2}$ ($TD_S - TD_P$) = $\frac{9}{2}$ MVS = FV + 20% of $FV_S = 100 + 20 = RS120$ $= 100 + 20 \times 100 = 100 + 20 = RS120$ $= ROD_S \times FV_S \times N_S$

29)	Meena Sanglikar invested 40,000 two stocks, partly in a number of 9 % stock at Rs.120 and the remaining
	in some 6% stock at Rs.160. Her dividend incomes from the two stocks were in the ratio 3:1. Find the
	amounts she invested in the two stocks.

Choice a) 11000, 21000 b) 15000, 25000 c) 240000, 16000 d) 18000, 22000

35) Mr. Daler Singh bought 200 Rs. 5 shares of Self Help Ltd. at Rs. 40 each. After getting a 10% dividend, he sold them at Rs. 41 each. Find his rate of return on Investment.

Choice a) 2.75% b) 3.50% c) 3.25% d) 3.75%

Lecture 7 Shares

Wednesday, October 6, 2021 9:37 AM

29) Meena Sanglikar invested 40,000 in two stocks, partly in a number of 9 % stock at Rs.120 and the remaining in some 6% stock at Rs.160. Her dividend incomes from the two stocks were in the ratio 3:1. Find the amounts she invested in the two stocks.

Choice a) 24000, 16000 b) 20000, 20000 c) 22000, 18000 d) 25000, 15000.

$$\frac{TD_A}{TD_B} = \frac{3}{1}$$
 Find $x = ?$ and $(4,0000 - x) = ?$

· Let ha and his represent no of shares of company A

and B respectively.

Now Inst = MVP × No. of Shares

so for company
$$A$$
, $120 \times h_A$ $A = \frac{n}{120}$

$$111^{1/3}$$
 for company B. $160 \times nB = \frac{40000 - n}{160}$

$$Now, TD_A = RoD_A \times FV_A \times h_A$$

 $So, TD_A = \frac{9}{100} \times 100 \times \frac{\pi}{120}$, $TD_B = \frac{6}{100} \times \frac{1000}{160}$
 $= \frac{9\pi}{120}$
 $= \frac{6(40000-\pi)}{160}$

$$\frac{7D_{A}}{7D_{B}} = \frac{3}{1} \Rightarrow \frac{9\pi}{120} = \frac{3}{1}$$

$$\Rightarrow \frac{\frac{160}{160}}{120} \times \frac{160}{160} = \frac{3}{1}$$

$$\Rightarrow \frac{160}{120} \times \frac{160}{160} = \frac{3}{1}$$

$$\frac{2n}{40000-n} = \frac{3}{1}$$

$$= 120000 - 3n$$

$$= 120000$$

$$= 120000$$

$$= 120000$$

$$= 24000$$
Hence $40000 - 24000 = 16000$

30) Mr. Ravi Kaskar invested Rs. 12,540, in two companies: Partly company A's shares purchased at 40% premium and the remaining in company B's shares purchased at 80% premium. Both companies had the shares at Rs. 100 par value. Company A and B gave 10% and 16% annual dividend respectively. Mr. Kaskar's incomes from the two dividends stood the ratio 17:16. Find his investment amounts in the two stocks separately. Choice a) 7000, 5540 b) 7140, 5400 c) 8240, 4300 d) 7540, 5000.

boh! Invt= 12540, Let n and (12540-n) be the investment in company A and B respectively.

Company A: 40% premium, FV = RS 100, RODA = 10%.

Company B: 80% premium, FV = RS 100, RODB = 16%.

Company B: 80% promote, 16 $\frac{TD_{A}}{TD_{B}} = \frac{17}{16}, \text{ Find } n = ?, (12540 - n) = ?$

 $MVP_{A} = FV_{A} + 40\% of FV_{A} = 100 + \frac{40}{100} \times 100 = 100 + 40 = 140$ $MVP_{B} = FV_{B} + 80\% of FV_{B} = 100 + \frac{80}{100} \times 100 = 100 + 80 = 180$

Let no and no be the no. of shares of company of and B respectively.

Now, Int = MPV × No. of Shares

So for company A,
$$\chi = 140 \times h_A \quad \therefore h_A = \frac{\chi}{140}$$

$$h_B = \frac{(12540 - n)}{180}$$

$$TD_{A} = ROD_{A} \times FV_{A} \times h_{A}$$

$$TD_{A} = \frac{10}{100} \times 100 \times \frac{\pi}{140} = \frac{10\pi}{140} = \frac{\pi}{140}$$

$$TD_{B} = ROD_{B} \times FV_{B} \times h_{B}$$

$$16 \times 100 \times (12540 - \pi)$$

$$TD_{B} = \frac{16}{100} \times 100 \times \frac{(12540-x)}{180}$$

$$= \frac{16}{100} \times 100 \times \frac{(12540-x)}{180}$$

$$= \frac{16}{100} \times 100 \times \frac{(12540-x)}{180}$$
Now, we know that,
$$\frac{TD_{A}}{TD_{B}} = \frac{17}{16} = \frac{x}{14} = \frac{17}{16(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{14} \times \frac{180}{16(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{14} \times \frac{180}{(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{14} \times \frac{180}{(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{14} \times \frac{180}{(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{16} \times \frac{180}{(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{16} \times \frac{180}{(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{10} \times \frac{180}{(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{16} \times \frac{180}{(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{17} \times \frac{180}{(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{19} \times \frac{190}{(12540-x)} = \frac{17}{16}$$

$$\Rightarrow \frac{x}{19} \times \frac{19$$

36) Ms. Ragini Gandhi purchased a number of Rs. 10 shares of Industries at Rs 480 each. After receiving a 50% dividend, she sold them Rs. 478 each Find her rate of return on investment.

Choice a) 0.25% b) 0.50% c) 0.68% d) 0.625%

Soln:
$$FV = RS 10$$
, $MVP = 480$, $MVS = 478$, $ROD = 50\%$.
 $ROR = 9$
 $LOSS = MVS - MVP = 478 - 480 = -2$
on 1 share
 $Dividend = ROD \times FV$
 $= 50 \times 10 = 500 = RS 5$
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37) Mr. Sonu Padukone purchased some Rs. 100 shares at 20% discount and sold them at a 10% premium. The brokerage in each of the transactions was 0.30%. Find his rate of return on investment.

Choice a) 28.25% b) 32.50% c) 36.68% d) 34.46%

Gain on 1 Share = Value at sale - PP of 1 Share

of 1 Share

=
$$109.67 - 80.24$$

= 29.43

= 29.43

= 29.43×100

= 29.43×100

= 29.43×100

= 36.68%

- 38) Find the rate of return on investment, if some shares of Advani Hotels were purchased at Rs. 640 and later sold at Rs. 690, the brokerage being 0.50% on both the transactions.

 Choice a) 8.25% b) 5.75% c) 6.74% d) 7. 25%.
- 39) Find the rate of return on investment if 200 shares of face value Rs. 10 were purchased at Rs. 350 each and sold later at Rs 352, the brokerage being 0.5% on each of the transactions

 Choice a) 2.25% profit b) 1.75% profit c) 0.43% loss d) 0.75% loss.
- 40) Mr. Hari Naidu invested in some 10% Rs. 100 shares at Rs 90 each through a broker who charged 0.2% on the purchase. After receiving the dividend, he sold the shares at Rs 105 each paying 0.4% brokerage. Find Mr. Naidu's rate of return on investment.

Choice a) 27.06% b) 22.45% c) 24.64% d) 23.06%.

Solv: -ROD = 10 '/., FV = RS 100, MVP = 90, ROBP = 0.27., MVS = 105

RODS = 0.4/., ROR =?

PP of I share = MVP + Brokerage
= 90 + 0.2 × 90 = 90 + 18 = 90+0.18 = 90.18

Div. on I share = ROD × FN

Div. on I share = 10 × 100 = RS 10

Gales Value of I share = MVS - Brokerage
= 105 - 0.4 × 105
= 105 - 0.42
= 104.58

Now gain on I share = Div on I share
+ (Salw Value of I share - PP of I share)

(Salus value of 1 Share - PP of 18hare)

= 10 + (104.58 - 90.18)

= 10 + 14.40

= 24.40

PP. of 1 Share

= 24.40 × 100

90.18

= 27.06%.

41) Mr. Murtuza Suratwala purchased 400 Rs. 100 shares at Rs. 180 each, paying 0.2% brokerage. After getting 11% dividend, he sold them at Rs 210 each paying 0.3% brokerage. Find his total gain and the rate of return on investment.

Choice a) 21000, 22.5% b) 18540, 25.75% c) 16004, 22.18% d) 18460, 20.46%, Soln: No. of shares = 400, F.V = RS 100, MVP = 180, ROBP = 0.2%, ROD = 11%, MVS = R 210, ROBS = 0.3%, TG = ?, ROR = ?

PP of 1 Share = MVP + Brokerage

= 180 + 0.2 × 180 = 180 + 36 = 180 - 36 Sales Value of = MVS of 1 Share - Brokerage 1 Share - 7.10 - 0.3 × 7.10 = 210 - $\frac{0.3}{100} \times 210$ $= 210 - \frac{63}{100} = 210 - 0.63 = 209.37$ Gain on 1 share = Sales value _ PP of 1 share = 209.37 - 180.36= 29.01gerin on all share = gain on 1 share x NO. of shares = 29.01 × 400 = 2901 × 4 = 11604 = ROD X FV × No of shares TD $= 11 \times 100 \times 400$ = 4400 = Gain on all shares + TD = RS 11604 + RS 4400 Total Gen - RS 1600H = Total Garn × 100

Total Invest

= 16004 × 100

PP of 1 Share × no. of Shares

= 16004 × 100 ROR × 100

42) Ms. Manisha Sinha purchased 700 Rs. 100 shares at Rs. 350 each. After getting a 10% dividend, she sold all of them at Rs. 400 each. The brokerage she paid was 0.3% on purchase and 0.2% on sale. What was her total gain and the rate of return on investment?

Choice a) 40705, 16.56% b) 38580, 25.75% c) 46604, 20.25% d) 34700, 18.26%.

- 43) Mr. Vilas Shivale invested Rs. 14,028 in 8% Rs. 10 shares quoted at Rs. 70 each and after receiving the dividend, sold them at the market price which was the same, Rs. 70 each. The brokerage was 0.2% on each of the two transactions. What was the total gain or loss? What was the rate of return on investment? Choice a) 40705, 16.56% b) 38580, 25.75% c) 46604, 20.25% d) 34700, 18.26%.
- 44) Mr. Yashwant Shah purchased 200 Rs. 10 shares at Rs. 400 each on 1st January 2005. On 20th March 2005, he received a 10% dividend. On 10 March, 2006, he received bonus shares in the ratio 1 bonus share: 10 existing shares. On 1st July 2006, he sold all his shares at Rs. 430. As Mr. Shah is a broker himself, there was no brokerage involved. Find his net income and the rate of return on investment.

Choice a) 13400, 16.5% b) 14800, 18.5% c) 16400, 20.25% d) 17300, 21.75%.

Investment = 14800 × 100 80000 = 18.5%