

## INTRODUCTION

- The problem of valuation of shares is one of the most complicated problems facing an accountant. Generally, the shares of public companies are quoted on recognized stock exchanges, and there is no difficulty in fixing the values of such shares. But the prices quoted on stock exchanges are many times not enough for certain purposes, because they are influenced by a number of external factors like government policy, political situation, etc. over which the company has no control.
- Further, shares of all the public companies are not quoted on the Stock Exchanges. Shares of those public companies which do not fulfill the listing requirements or which do not apply to the stock exchange for listing their shares are not quoted on the stock exchange. Hence, the shares of such public companies have to be valued in accordance with some accepted principles.

# NEED FOR VALUATION OF SHARES

The following are the particular circumstances where it becomes necessary to value the shares:

- > When unquoted shares of private or public companies are bought and sold.
- When two or more companies amalgamate or are absorbed by some other company, it becomes necessary to arrive at the value of shares held by the members of the company being absorbed.
- > When partners in a firm jointly hold shares and the partnership is dissolved, the value of such shares are to be determined for fair distribution of property of the firm.
- > When loan is to be obtained on the security of such shares./
- Where the company is reconstructed under Section 494, its shares are valued for acquiring shares of dissentient shareholders.

## NEED FOR VALUATION OF SHARES(CONT.)

- > When shares of one class are to be converted into some other type of shares.
- > When shares in a company are gifted, they must be valued for gift tax purposes.
- > For wealth-tax purposes (Now shares are exempted from wealth tax).
- > When shares are acquired for controlling purposes.
- > For transfer of shares of private company.
- When it becomes necessary to make valuation of assets of a finance or investment company.
- When an industry in nationalized and compensation has to be paid to the shareholders of companies taken over.

## FACTORS AFFECTING VALUE OF SHARES

The factors that affect the valuation of shares are largely the same that affect the valuation of goodwill. Generally, shares are valued on the basis of yield and the factors that affect the yield are broadly dividend into two categories, viz. (a) Internal factors and (b) External factors.

#### (a) Internal Factors

- i. Financial Position
- ii. Earning Capacity
- iii. Goodwill
- iv. Unfavorable Ratios
- v. Capital Employed
- (b) External Factors
  - i. Nature of Business
  - ii. Quantum of Savings
  - iii. Government Policy
  - iv. Political Condition
  - v. Facilities Available
  - vi. Return on Shares of other Companies

## METHODS OF VALUATION OF SHARES

There are two generally accepted and widely used methods of valuing shares:

- I. Net Assets Valuation Method or Asset Backing Method or Intrinsic
   Value Method or Break-up Value Method
- II. Yield Method or Earning Capacity Valuation Method.

The above methods may be used in different circumstances, depending upon the purpose of valuation.

### NET ASSETS VALUATION OR INTRINSIC VALUE METHOD

The valuation of shares under this method is made by dividing the Net Assets of the company by the number of shares. The value of assets included in total assets must, of course, be the market value on the date of valuation, e.g., the total assets of a company are valued at ₹ 1,00,000 and its liabilities amounted to ₹ 40,000 i.e., its Net Assets are ₹ 60,000. Suppose the number of equity shares are 3,000 of ₹ 100 each fully paid, then the value of share will be:

Intrinsic Value of Share =  $\frac{Net Assets}{Number of Shares}$ 

= 
$$\frac{60,000}{3,000}$$
 = ₹ 20.

This is the Intrinsic Value of Share.

## NET ASSETS VALUATION OR INTRINSIC VALUE METHOD

The following points should be carefully studied in connection with Net Assets Method:

- □ Goodwill
- Fictitious Assets
- □ The assets should be valued at their realizable values
- Depreciation
- Non trading Investments
- □ The balances of accumulated profits
- Liabilities
- Preference Capital and Preference Dividend

## NET ASSETS VALUATION OR INTRINSIC VALUE METHOD

Share Valuation on basis of Net Assets (Determining Intrinsic Value of Shares)

- (1) Find out the Net Assets.
   Net Assets = Total Assets Total Liabilities
  - (i) If goodwill is to be found out, then add it to the total
    - assets.
  - (ii) Pref. Share Capital and Arrears of Pref. dividend must be deducted from Net Assets.
- (2) Find out the intrinsic value with the help of following formula.

Intrinsic Value of Equity Shares =  $\frac{\text{Net Assets}}{\text{No. of Equity Shares}}$ 

1. From the following information, ascertain the value of Equity shares under the "Net Assets Method."

Balance Sheet as at 31st March, 2020

Particulars		Note	Rs.	
L	EQ	UITY AND LIABILITIES :		
	(1)	Shareholders' Funds :		1
		(a) Share Capital :		
		1,000 Equity Shares of Rs. 100 each 1,000 10% Pref. Shares of Rs. 100 each		1,00,000
	(2)	Current Liabilities :		1,00,000
		(a) Trade Payables : Creditors		2,00,000
I.	ASS	SETS : Total		4,00,000
	<b>(a</b> )	Fixed Assets :	1 1	
		(i) Tangible Assets (ii) Interprible Assets		3,80,000
	<b>(b)</b>	(ii) Intangible Assets : Goodwill		10,000
	(0)	Other Non-Current Assets : Preliminary Expenses		10,000
	_	Total	I [	4,00,000

an unrecorded liability of Rs. 10,000.

#### **Solution:**

Step – 1: Net Assets = Total Assets – Total Liabilities						
Total Assets		₹				
Sundry Assets including	Goodwill	5,10,000				
Less: Total Liabilities						
Creditors	2,00,000					
Unrecorded Liabilities	10,000	2,10,000				
Net Assets		3,00,000				
Less: 10% Pref. Capital		1,00,000				
Capital Employed		2,00,000				

# **Step – 2: Intrinsic Value of Share** = $\frac{Net Assets}{No.of Equity Shares}$



00%	× 10	0 / 10% = 200/1 Balance Sheet of a comp	Note	Rs.
[207•	24.	Following is the Dataset		<u> </u>
E		Particulars		1
		THE LIABILITIES :	ł	1
1. E	QUI	TY AND Line's Funds :	1	1
(1	I) S	sharenotocia - indicach.	ļ	3.60.000
	•	a) Share cup is 6 000 Equity Shares of RS. 100 curves	_ 1	3 00.000
		Rs 60 paid up	ully paid	3 10 000
		(B' 30 000 Equity Shares of RS. 10 cust	l l	1 20 000
		12% Preference Share Capital		1,20,000
		(b) Reserves and Surplus : General Reserves	1	1
		Non-Current Liabilities :	Ì	4
•	2)	(a) Long Term Provisions :	l l	
		Depreciation Fund : 45.00	00	1 1 22 000
		Building 75.00		1,20,000
		Machinery	1	
(	(3)	Current Liabilities :		5.10.000
		(a) Trade Payables : Creditors To	tal	17,10,000
			Į.	
1 <b>1</b> . A	ASS:	ETS:		
(	1)	Non-Current Assets :	l l	1
		(a) Fixed Assets :		1
		(1) Langible Assets :		6,00,000
		Bullang	l l	5,25,000
		Machinery	Expenses	15.000
		(b) Other Kon-Current Assets : Fremining	Expenses	
{2	2)	Current Assets :	l l	75,000
		(a) Inventories : Stock		4,80,000
	I	(b) Trade Receivables : Debtors		15.000
	•	(c) Cash and Cash Equivalents . Cash bala		17 10 000
		1	Total	17,10,
		the lin determined at Rs 2 40 000 Th	in market value	of building is
C	100	GWIII IS determined at its. 2,40,000. It	0/ less the less	value, Find
s. 7,5	50,0	00. The market value of machinery is 20	vo less than its be	JOK Value

#### **Solution:** Step – 1: Net Assets = Total Assets – Total Liabilities

Total Assets	₹	
Goodwill	2,40,000	
Building		7,50,000
Machinery (5,25,000 – Dep. 75,000)	4,50,000	
Less: 20 % of Book Value	90,000	3,60,000
Stock		75,000
Debtors		4,80,000
Cash Balance	15,000	
Total Assets	19,20,000	
Less: Total Liabilities: Creditors	5,10,000	
		14,10,000
Less: 12% Preference Share Capital		3,00,000
		11,10,000
Add: Uncalled Amount of Equity Shares		
(6,000 Eq. Shares × ₹ 40 per share ur	2,40,000	
<b>Net Assets / Capital Employed</b>	13,50,000	

Now, we have to divide total net assets into two types of shares in their capital ratio.

Type A Equity Shares = 6,000 shares of ₹ 100 each = ₹ 6,00,000 and Type B Equity Shares = 30,000 shares of ₹ 10 each = ₹ 3,00,000.

So, the capital ratio of A and B is 2 : 1.

So, we have divide Total Net Assets in 2 : 1.

Net Assets for Type 'A' Eq. Shares = 13,50,000  $\times \frac{2}{3} = ₹ 9,00,000$  and

Net Assets for Type 'B' Eq. Shares =  $13,50,000 \times \frac{1}{3} = ₹ 4,50,000$ 

# **Step – 2: Intrinsic Value of Share =** $\frac{Net Assets}{No.of Equity Shares}$

For, Type 'A' Eq. Shares (Fully paid) = 
$$\frac{9,00,000}{6,000}$$
 = ₹ 150  
Type 'A' Eq. Shares (Partly paid) = ₹ 150 - ₹ 40 = ₹ 110  
Intrinsic Value of Type 'B' Eq. Shares =  $\frac{4,50,000}{30,000}$  = ₹ 15

# YIELD V&LU&TION METHOD

This method takes into account the earnings available for distribution for valuing shares. The value so calculated is generally known as "Market Value". When an investor thinks of purchasing shares of a company, he is interested in the income that he will receive from his investments. Hence, the shares are generally valued on the basis of yield. This method is known as "Yield Valuation Method" or "Earning Capacity Valuation Method".

While ascertaining the value of shares according to Net Assets Method we think in terms of closing down the company, that is what the assets would realize if the company is wound up and what amount per share would be returned to shareholders out of the proceeds. In other words, we calculate the Asset Backing per share. However, an investor does not think of winding up of the company when he purchases shares. He has an eye on the earnings.

# YIELD VALUATION METHOD

Under this method, the following steps are essential for finding out the value of shares:

Valuation of Shares on Yield Basis (Market Value of shares)

1. Find out of the average net profits i.e. future maintainable profit (after making necessary adjustments).

- 2. Find out the rate of dividend that can be paid on equity shares on the basis of average profits.
- 3. Find out the market value of shares by following formula :

 $\frac{Percentage of Dividend}{Expected Rate of Return} \times Paid up amount per share$ 

# YIELD VALUATION METHOD

- □ Future Maintainable Profit: The profit of the company which the company is expected to earn and maintain in future should be ascertained. Certain adjustments must be made in the average profit so arrived at in order to get the "Future Maintainable Profits".
  - □ Non-recurring items should be excluded.
  - □ Income-tax must be provided for out of the profits.
  - Dividend on Preference shares should be deducted.

 $\square \text{ Rate of Dividend} = \frac{Profit Available For Dividend}{Equity Share Capital} \times 100$ 

$$\Box \text{ Value of Share} = \frac{\text{Rate of Dividend}}{\text{Normal Rate of Return (ERR)}} \times \text{Paid up Value of Share}$$

# FAIR VALUE METHOD

The fair value of a share may be taken to mean the average of the intrinsic value based on Net Assets and market value based on Yield.

This value is fair in circumstances when the net profits of the company are small and at the same time its net assets are substantial. In such a case there will be a marked difference between the values computed under the two methods and a compromise is effected by ascertaining the mean of these two values which is known as "Fair Value". In fact, this value has no utility except that it is a compromise in certain circumstances.

 $\Box Fair Value of Share = \frac{Intrinsic Value + Market Value}{2}$ 

Ans. Value of Equity Share No. 200, 1100 100000 ----**2.** The following is the position of Gita-Kanchan Ltd. as on 31-3-2020.

	1		De
	<b>Rs.</b>		RS.
Goodwill	1.00.000	Building	2,00,000
Machinety	5.00.000	Debentures	1,00,000
Reserve and Surplus	2.00.000	Cash	10,000
Bank Balance	50,000	Debtors	72,000
Bad Debts Reserve	2,000	Stock	80,000
Investments	_,	Workmen's Profit :	
(a) Shares of Subsidiary		Sharing Fund	40,000
company	40,000	12% Pref. Shares	1,00,000
(b) 10% Government		Creditors	60,000
Securities	50,000	Advertisement	
Workmen's Compensation	,	Suspense Account	1,00,000
Fund	10,000		

5,000 Equity shares of Rs. 100 each, on which Rs. 80 per share have been paid. 2,000 Equity shares of Rs. 100 each, fully paid.

#### **Additional Informations :**

The book value of stock and machinery is to be reduced by 25% and 20% (1)respectively and building is to increased by 50%.

#### 168 The average annual profit of last three years after deducting income-tax

- (2)at 50% is Rs. 1,02,000. The expected rate of return on capital employed in this type of business
- (3)is considered to be 10%.
  - The Goodwill of the company is now valued at Rs. 2,70,000.

(4)From the above particulars, ascertain the fair value of equity shares of the company.

[North Gui IIni TY April 1992]

#### **Solution:** Step – 1: Net Assets = Total Assets – Total Liabilities

Tot	₹		
Goodwill			2,70,000
Machinery	(5,00,000 – Decrease 20%)		4,00,000
Building	(2,00,000 + 50%)		3,00,000
Investment (a	40,000		
(b)	50,000		
Stock	(80,000 – 25%)		60,000
Debtors	(72,000 – B.D.R. 2,000)		70,000
Cash Balanc	e		10,000
Bank Balanc	ce		50,000
	Total Assets		12,50,000
Less: Total Liabili	ties: Debentures	1,00,000	
Creditors		60,000	
Workmen's F	Profit Sharing Fund	40,000	2,00,000
			10,50,000
Less: 12% Prefere	ence Share Capital		1,00,000
			9,50,000
Add: Uncalled Am	nount of Equity Shares		
(5,000 H	Eq. Shares × ₹ 20 per share unca	lled amount)	1,00,000
Ne	t Assets / Capital Employed		10,50,000

# **Step – 2: Intrinsic Value of Share** = $\frac{Net Assets}{No.of Equity Shares}$



Partly paid Eq. Shares = Intrinsic Value of Fully paid

- Uncalled Amount per share

#### (B) Yield Value or Market Value:

#### **Step – 1: Future Maintainable Profit:**

Particulars₹Average Profit after tax1,02,000Less: Preference Dividend (1,00,000 × 12%)12,000So, Future Maintainable Profit90,000

**Step – 2: Rate of Dividend** =  $\frac{Profit Available For Dividend}{Equity Share Capital (Paid up)} \times 100$ 

$$=\frac{90,000}{6,00,000}\times 100 = 15\%$$

Where, Total Paid up capital = 5,000 Eq. shares of ₹ 80 + 2,000 Eq. shares of ₹ 100 = 4,00,000 + 2,00,000 = ₹ 6,00,000 **Step – 3:** Market Value of Share =  $\frac{Rate \ of \ Dividend}{Normal \ Rate \ of \ Return \ (ERR)} \times Paid \ up \ Value \ of \ Share$ 

For, Fully paid 
$$=\frac{15}{10} \times 100$$
  $=$  ₹ 150

Partly paid 
$$=\frac{15}{10} \times 80 =$$
**₹ 120**

(C) Fair Value of Eq. shares =  $\frac{Intrinsic Value + Market Value}{2}$ 

Fully paid = 
$$\frac{150+150}{2}$$
 = ₹ 150  
Partly paid =  $\frac{130+120}{2}$  = ₹ 125

		Note	Rs.
	Particulars		
I. E( (1) (2) (3)	<ul> <li>EQUITY AND LIABILITIES :         <ul> <li>(1) Shareholders' Funds :</li></ul></li></ul>		20,00,000 10,00,000 5,00,000 <u>5,00,000</u> 40,00,000
I. AS (1)	SSETS : Non-Current Assets : (a) Fixed Assets : (i) Tangible Assets : Land & Building Furniture		5,00,000
(2)	Current Assets : (a) Inventories : Stock (b) Trade Receivables : Debtors (c) Cash and Cash Equivalents : Bank balance Total		8,00,00 2,00,00 3,90,00 40,00,00

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#### Additional Informations :

- (1) The present value of the assets of the company is to be taken as double.
- (2) The goodwill of the company is to be valued at double the average super profit of last three years.
- (3) The profit of last three years of the Company was Rs. 12,00,000, Rs. 12,00,000 and Rs. 12,00,000 respectively.
- (4) The expected rate of return in the Company's line of business is 10%.
- (5) For the last three years, the Company has been transferring 25% of the profit earned every year to its General Reserve Account and distributing the balance amount to shareholders as dividend.

From the above information find out the, (1) Intrinsic value, (2) Average yield value, and (3) Fair value of the shares of the company.

# **Solution:** Here, value of goodwill is not given, so we have to find out it first.

#### **Step – 1: Net Assets = Total Assets – Total Liabilities**

Total Assets	S		₹	
Land & Building	(5,00,000 × 2)		10,00,000	
Furniture	(2,00,000 × 2)		4,00,000	
Plant & Machinery	(20,00,000 × 2)		40,00,000	
Stock	(8,00,000 × 2)		16,00,000	
Debtors			2,00,000	
Bank Balance			3,00,000	
Total As	ssets		75,00,000	
Less: Total Liabilities:				
12% Debentures		5,00,000		
Creditors		5,00,000	10,00,000	
Net As:	sets / Capital Emplo	yed	65,00,000	

# Step – 2: Expected Profit = Capital Employed × E.R.R. = ₹ 65,00,000 × 10% = ₹ 6,50,000

#### **Step – 3: Find out Average Profit or Future Maintainable Profit:**

Average Profit =  $\frac{\text{Total Profit}}{\text{No.of years}}$ 

Here, total profit of last three years:

12,00,000 + 12,00,000 + 12,00,000 = 36,00,000.

So, Average Profit =  $\frac{36,00,000}{3}$ = ₹ 12,00,000

#### **Step – 4: Super Profit = Future Maintainable Profit**

- Expected Profit

**Step – 5: Goodwill = Double of Average Super Profit** = ₹ 5,50,000 × 2 = **₹ 11,00,000**  Now, We will find out fair value of shares and for that first we need to find Intrinsic value and Market value of share.

#### (A) Intrinsic Value of Share

#### **Step – 1: Net Assets = Total Assets – Total Liabilities**



#### (B) Yield Value or Market Value:

#### **Step – 1: Future Maintainable Profit:**

Future Maintainable Profit	9,00,000
Less: Transfer to G.R. (25%)	3,00,000
Average profit	12,00,000

**Step – 2: Rate of Dividend** =  $\frac{Profit Available For Dividend}{Equity Share Capital (Paid up)} \times 100$ 

$$=\frac{9,00,000}{20,00,000}\times 100$$

₹

**= 45 %** 

**Step – 3:** Market Value of Share =  $\frac{Rate \ of \ Dividend}{Normal \ Rate \ of \ Return \ (ERR)} \times Paid \ up \ Value \ of \ Share$ 

$$=\frac{45}{10} \times 10$$
  
= ₹ **45**



4. Following is the Balance Sheet of Laghu Kailas Co. Ltd. as at 31-12-2019 :

	Particulars	Note	Rs.
EQU	ITY AND LIABILITIES :	<b>.</b>	
ക്	Shareholders' Funds :	1	1
	a) Share Capital : Equity Shares of Rs. 100 each		10,00,000
C	b) Reserves and Surplus		
	General Reserve	İ	2,50,000
	Profit & Loss A/c	-	2,50,000
(2) 🤇	Current Liabilities :	1	
(4	a) Trade Payables : Creditors		5,00,000
	Total		20,00,000
. ASSE	rs:		
(I) N	on-Current Assets :	Į	
(z	) Fixed Assets :		
	(i) Tangible Assets :		
	Land & Building		4,00,000
	Furniture		25,000
	Machinery		4.50.00
	Motor Car	ļ	25,00
- O	Non-Current Investments : 20% Investments	1	50 ი
()	A cost of Non-Current Acosts - Advt. Suspense A/G	: .	20,0
(0	) Other Non-Current Assets : Have 2001	ŀ	20,0
(2) C	urrent Assets :		
(a	) Inventories : Stock		/.25,0
(b	) Trade Receivables : Debtors	i	2.00,0
) (c	Cash and Cash Equivalents : Bank balance		1.05
(0	Total		20.00
	10101		,

#### **Additional Informations :**

- (1) Building and Machinery are to be valued at Rs. 6,00,000 and Rs. 5,20,000 respectively.
- (2) All investments are to be valued at 60% above cost.
- (3) Depreciation on appreciated value of Building and Machinery is not to be considered for valuation of goodwill.
- (4) Profit after 50% tax are as follows :

2016	Rs. 3,05,000	2018	Rs. 4,24,000
2017	Rs. 3,84,000	2019	Rs. 5,04,000

- (5) In similar business, expected rate of return on capital employed is 20% (after tax).
- (6) In 2017 machinery (book value Rs. 20,000) was sold for Rs. 20,000, but the proceeds were wrongly credited to profit and loss A/c. This mistake has not yet been rectified. Depreciation has been charged at 10% per annum on straight line method.
- (7) Goodwill is to be valued on the basis of 3 years' purchase of super profis based on weighted average profit of the last four years.
- (8) Find out the fair value of equity shares.

#### **Solution:** Here, value of goodwill is not given, so we have to find out it first.

#### **Step – 1: Net Assets = Total Assets – Total Liabilities**

Total Assets		₹
Land & Building		6,00,000
Furniture		25,000
Machinery		5,20,000
Motor Car		25,000
Stock		7,25,000
Debtors		2,00,000
Bank Balance		1,05,000
Total Assets		22,00,000
ess: Total Liabilities:		
Creditors	5,00,000	5,00,000
Net Assets / Capita	al Employed	17,00,000

#### **Step – 2: Expected Profit = Capital Employed × E.R.R.** = ₹ 17,00,000 × 20% = **₹ 3,40,000**

#### **Step – 3: Find out Average Profit or Future Maintainable Profit:**

Weighted Average Profit =  $\frac{\text{Total Weighted Profit}}{\text{Total Weight}}$ 

Here, Profit of the company after tax is given so we find first profit before tax and the scrutiny of profits reveals following adjustments :

Particulars	2016	2017	2018	2019
Profit before tax	6,10,000	7,68,000	8,48,000	10,08,000
(1) Capital Income considered rever	nue	(20,000)	/	
(2) Depreciation of capital income		2,000	2,000	2,000
So, Adjusted Profit before tax	6,10,000	7,50,000	8,50,000	10,10,000

Year	Profit	Weight	Weighted Profit
2016	6,10,000	1	6,10,000
2017	7,50,000	2	15,00,000
2018	8,50,000	3	25,50,000
2019	10,10,000	4	40,40,000
Total		10	87,00,000

So, Weighted Average Profit =  $\frac{87,00,000}{10}$  = ₹ 8,70,000

#### **G** Future Maintainable Profit:

Weighted Average Profit

Less: Interest on 20% Investment (50,000 × 20%)

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Less: Taxes (50%)
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So, Future Maintainable Profit

₹
8,70,000
10,000
8,60,000
4,30,000
4,30,000

#### **Step – 4: Super Profit = Future Maintainable Profit**

- Expected Profit

**Step – 5: Goodwill = Super Profit × No. of Purchasing years'** = ₹ 90,000 × 3 = **₹ 2,70,000**  Now, We will find out fair value of shares and for that first we need to find Intrinsic value and Market value of share.

#### (A) Intrinsic Value of Share

#### **Step – 1: Net Assets = Total Assets – Total Liabilities**

Here, Net Assets as in goodwill	17,00,000	
Add: Goodwill		2,70,000
Non – trade Investment (50,000 + 60%)		80,000
So, Net Assets for valuation of share		20,50,000
	Net Assets	
Step – 2: Intrinsic Value of Share =		
	20.50.000	

Fully paid Eq. Shares

= <u>20,50,000</u> 10,000



#### (B) Yield Value or Market Value:

#### **Step – 1: Future Maintainable Profit:**



₹

Step – 2: Rate of Dividend =  $\frac{Profit Available For Dividend}{Equity Share Capital (Paid up)} \times 100$  $= \frac{4,35,000}{10,00,000} \times 100$ = 43.5 %

**Step – 3:** Market Value of Share =  $\frac{Rate \ of \ Dividend}{Normal \ Rate \ of \ Return \ (ERR)} \times Paid \ up \ Value \ of \ Share$ 

$$= \frac{43.5}{20} \times 100$$
$$= \textbf{₹ 217.50}$$

(C) Fair Value of Eq. shares =  $\frac{Intrinsic Value + Market Value}{2}$  $= \frac{205 + 217.5}{2}$  $= \underbrace{\textbf{?} 211.25}$ 

	Note	P.
<ul> <li>(1) Shareholders' Funds:         <ul> <li>(a) Share Capital :</li> <li>'A' Equity Shares of Rs. 100 each fully paid up</li> <li>'B' Equity Shares of Rs. 100 each, Rs. 75 paid up</li> <li>(b) Reserves and Surplus : General Reserve</li> </ul> </li> <li>(2) Current Liabilities :         <ul> <li>(a) Trade Payables : Creditors</li> <li>Total</li> </ul> </li> </ul>	-	6,00, 3,00, 4.00, <u>3.00,0</u> 16.00,0
•		

The market value of all the assets of the Company is 20% more than the book value.

The average profit of the Company after taxes at 35% is Rs. 1,80,000 and expected rate of return is 10%.

Calculate the value of both Shares as per Intrinsic Value Method and Yield Method.

#### **Solution**:

#### **Step – 1: Net Assets = Total Assets – Total Liabilities** Total Assets ₹ Fixed Assets (10,00,000 + 20 %) 12,00,000 Current assets other than bank balance 6,00,000 (5,00,000 + 20%)1,00,000 Bank Balance 19,00,000 Total Assets Less: Total Liabilities 3,00,000 Creditors 16,00,000 Add: Uncalled Amount of 'B' Equity shares

1,00,000

17,00,000

(4,000 Eq. shares × ₹ 25 per share) Net Assets/Capital Employed

# **Step – 2: Intrinsic Value of Share** = $\frac{Net Assets}{No.of Equity Shares}$



Partly paid Eq. Shares = Intrinsic Value of Fully paid

- Uncalled Amount per share

#### **(B) Yield Value or Market Value:**

**Step – 1: Future Maintainable Profit =** ₹ 1,80,000

**Step – 2: Rate of Dividend** =  $\frac{Profit Available For Dividend}{Equity Share Capital (Paid up)} \times 100$ 

$$=\frac{1,80,000}{9,00,000}\times100$$

= 20 %

**Step – 3:** Market Value of Share =  $\frac{Rate of Dividend}{Normal Rate of Return (ERR)} \times Paid up Value of Share$  $For, Fully paid = <math>\frac{20}{10} \times 100$  =  $\boxed{\textcircled{200}}$ Partly paid =  $\frac{20}{10} \times 75$  =  $\boxed{\Huge{150}}$ 

(C) Fair Value of Eq. shares = 
$$\frac{Intrinsic Value + Market Value}{2}$$
  
Fully paid =  $\frac{170+200}{2}$  = ₹ 185  
Partly paid =  $\frac{145+150}{2}$  = ₹ 147.5

200 + 2 = 172] S. The Balance Sheet of Ayodhya Ltd. as on 31-3-	2020 is a	as under ;
Particulars	Note	Rs.
L EQUITY AND LIABILITIES :		
(1) Shareholders' Funds:		
(a) Share Capital :		
5,000 Equity Shares of Rs. 100 each Rs.50 paid		2,50,000
30,000 Equity Shares of Rs. 10 each		3.00.000
10% Pref. Share Capital		2.00.000
(b) Reserves and Surplus :		_,,
General Reserve		1 00 000
Worker's Accident Compensation Fund		1,50,000
compensation rund	l	T'AAA
(2) Non-Current Liabilities :	1	
(a) Long Term Borrowings : 10% Debentures	1.	25,000
(b) Long Term Provisions :		•
Provident Fund		15,000
Depreciation Fund :		
Land & Building		37,500
Machinery		52,500
(3) Current Liabilities :		
(a) Trade Payables : Creditors		49,000
Total	12	,20,000
I. ASSEIS:		
(1) Non-Current Assets :		
(a) Fixed Assets :		
(1) Tangible Assets :		75 000
Land & Building		5,75,000
Machinery		5,50,000
(11) Intangible Assets : Goodwill		1,25,000

(b) Non-Current Investments :	
Shares of Subsidiary Company	75,000
12% P.F. Investments	15,000
10% Govt. Bonds	50,000
(c) Other Non-Current Assets : Preliminary Expenses	28,500
<ul> <li>(2) Current Assets :</li> <li>(a) Inventories : Stock</li> <li>(b) Trade Receivables :</li> <li>Debtors</li> <li>75,000</li> </ul>	99,500
(c) Cash and Cash Equivalents : Cash balance Total	72,000 30,000 12,20,000

#### Additional Informations :

- (1) The market value of land and buildings is Rs. 4,50,000.
- (2) Rs. 7,500 dividend is received on the shares of subsidiary company.
- (3) The average profit of Ayodhya Ltd. after providing 60% tax of the last three years is Rs. 1,22,000.
- (4) The expected rate of return in capital employed is 10%.
- (5) The goodwill of the company is to be calculated on the basis of two years' purchase of super profits.

From the above informations, find out the Intrinsic Value and Market Value of the equity share.

#### **Solution:** Here, value of goodwill has to be find out first.

#### **Step – 1: Net Assets = Total Assets – Total Liabilities**

	₹	
	4,50,000	
00)	2,97,500	
	75,000	
	15,000	
	99,500	
	72,000	
	30,000	
	10,39,000	
1,25,000		
15,000		
49,000	1,89,000	
	8,50,000	
	2,00,000	
oyed	6,50,000	
	00) 1,25,000 15,000 49,000	₹ 4,50,000 2,97,500 75,000 15,000 99,500 72,000 30,000 10,39,000 1,25,000 1,25,000 1,25,000 1,89,000 8,50,000 2,00,000 6,50,000

#### **Step – 2: Expected Profit = Capital Employed × E.R.R.** = ₹ 6,50,000 × 10% = ₹ 65,000

#### Step – 3: Find out Average Profit or Future Maintainable Profit:

Here, Profit of the company after tax is given so we find first profit before tax. We assume Profit before tax as 100, so tax is 60 and profit after tax is 40.

So, here Profit after tax is ₹ 1,22,000 then, profit before tax is

Particulars ₹ Profit before tax  $(1,22,000 \times 100 \div 40)$ 3,05,000 5,000 Less: Interest of Non-trading investment  $(50,000 \times 10\%)$ 3,00,000 1,80,00 Less: Taxes (60%) 1,20,000 Profit After tax Less: Preference Dividend  $(2,00,000 \times 10\%)$ 20,000 1,00,000 Future Maintainable Profit

#### **Step – 4: Super Profit = Future Maintainable Profit**

- Expected Profit

= ₹ 1,00,000 - ₹ 65,000
= ₹ 35,000

**Step – 5: Goodwill = Super Profit × No. of Purchasing years'** = ₹ 35,000 × 2 = **₹ 70,000**  Now, We will find out fair value of shares and for that first we need to find Intrinsic value and Market value of share.

#### (A) Intrinsic Value of Share

#### **Step – 1: Net Assets = Total Assets – Total Liabilities**

Here, Net Assets as in goodwill6,50,000Add: Goodwill70,000Non – trade Investment (10% govt. securities)50,000Uncalled amount of Eq. Shares (5,000 × 50)2,50,000So, Net Assets for valuation of share10,20,000

Now, we have to divide total net assets into two types of shares in their capital ratio.

Type A Equity Shares = 5,000 shares of ₹ 100 each = ₹ 5,00,000 and Type B Equity Shares = 30,000 shares of ₹ 10 each = ₹ 3,00,000.

So, the capital ratio of A and B is 5 : 3.

So, we have divide Total Net Assets in 5 : 3.

Net Assets for Type 'A' Eq. Shares =  $10,20,000 \times \frac{5}{8} = ₹ 6,37,500$  and

Net Assets for Type 'B' Eq. Shares =  $10,20,000 \times \frac{3}{8} = ₹ 3,82,500$ .

# **Step – 2: Intrinsic Value of Share =** $\frac{Net Assets}{No.of Equity Shares}$

For, Type 'A' Eq. Shares (Fully paid) = 
$$\frac{6,37,500}{5,000}$$
 = ₹ 127.5



#### **(B) Yield Value or Market Value:**

#### **Step – 1: Future Maintainable Profit:**

Average profit before tax as in goodwill 3,05,000 Less: Taxes (60%) 1,83,000 1,22,000 Profit after tax Less: Preference Dividend  $(2,00,000 \times 10\%)$ 20,000 1,02,000 Profit available for Dividend

**Step – 2: Rate of Dividend** =  $\frac{Profit Available For Dividend}{Fourier Characterity (Ducidence)} \times 100$ Equity Share Capital (Paid up)

₹

$$=\frac{1,02,000}{5,50,000}\times 100$$

= 18.54 %

**Step – 3:** Market Value of Share =  $\frac{Rate \ of \ Dividend}{Normal \ Rate \ of \ Return \ (ERR)} \times Paid \ up \ Value \ of \ Share$ 

For, Type 'A' Fully paid 
$$=\frac{18.54}{10} \times 100$$
  $=$  **₹ 185.4**

Type 'A' Partly paid = 
$$\frac{18.54}{10} \times 50$$
 = ₹ 92.70

Type 'B' Fully paid  $=\frac{18.54}{10} \times 10$  = ₹ 18.54

(C) Fair Value of Eq. shares =  $\frac{Intrinsic Value+Market Value}{2}$ For, Type 'A' Fully paid =  $\frac{127.5+185.4}{2}$  = ₹ 156.45 Type 'A' Partly paid =  $\frac{77.5+92.7}{2}$  = ₹ 85.10 Type 'B' Fully paid =  $\frac{12.75+18.54}{2}$  = ₹ 15.645 value of Rs. 100 share Rs. 92.70 and real and real on 31-3-2020 is as under.

Particulars         I. EQUITY AND LIABILITIES :         (1) Shareholders' Funds :       (a) Share Capital :         (a) Share Capital :       7,00,000         Equity Shares of Rs. 100 each fully paid up       1,50,000         Equity Shares of Rs. 100 each fully paid       5,00,000         9% Pref. Shares of Rs. 100 each fully paid       5,00,000         (b) Reserves and Surplus : General Reserve       1,00,000         (c) Non-Current Liabilities :       1,00,000
I. EQUITY AND LIABILITIES :       (1) Shareholders' Funds :       7,00,000         (a) Share Capital :       Equity Shares of Rs. 100 each fully paid up       1,50,000         Equity Shares of Rs. 100 each, Rs. 50 paid       9% Pref. Shares of Rs. 100 each fully paid       5,00,000         (b) Reserves and Surplus : General Reserve       1,00,000       3,54,900
<ul> <li>1. EQUITATION Funds:         <ul> <li>(1) Shareholders' Funds:</li> <li>(a) Share Capital:</li> <li>Equity Shares of Rs. 100 each fully paid up</li> <li>Equity Shares of Rs. 100 each, Rs. 50 paid</li> <li>5,00,000</li> <li>5,00,000</li> <li>3,54,900</li> </ul> </li> <li>(b) Reserves and Surplus : General Reserve</li> <li>(c) Non-Current Liabilities :</li> </ul>
<ul> <li>(a) Share Capital :         <ul> <li>(a) Share Capital :             <ul> <li>Equity Shares of Rs. 100 each fully paid up</li> <li>Equity Shares of Rs. 100 each, Rs. 50 paid</li> <li>Equity Shares of Rs. 100 each fully paid</li> <li>5.00,000</li> <li>5.00,000</li> <li>3.54,900</li> <li>(a) Non-Current Liabilities :</li> <li>(b) Reserves and Surplus : General Reserve</li> <li>(c) Non-Current Liabilities :</li> </ul> <li>(c) Non-Current Liabilities :</li> </li></ul></li></ul>
Equity Shares of Rs. 100 each runy part of Equity Shares of Rs. 100 each, Rs. 50 paid 9% Pref. Shares of Rs. 100 each fully paid (b) Reserves and Surplus : General Reserve (2) Non-Current Liabilities :
Equity Shares of Rs. 100 each, RS. 90 paid 9% Pref. Shares of Rs. 100 each fully paid (b) Reserves and Surplus : General Reserve (c) Non-Current Liabilities :
9% Pref. Shares of Rs. 100 each thiry port (b) Reserves and Surplus : General Reserve (c) Non-Current Liabilities :
(b) Reserves and Surplus : General Reserve (c) Non-Current Liabilities :
(2) Non-Current Liabilities :
(2) Non-Current and the bentitres
(a) Long Term Borrowings : 6% Debendered
(3) Current Liabilities : 50,100
(a) Trade Payables : Creditors
(b) Short Term Provisions : 45,000
Proposed Dividend on Pref. Shares 3,00,000
Taxation Provision Total 22.00.000
1 otal
II. ASSETS
(1) Non-Current Assets :
(a) Fixed Assets :
(i) Tangible Assets : Land & Building
(ii) Intangible Assets : Goodwill 91,000
(b) Non-Current Investments : 10% Govt. Securities
(c) Other Non-Current Assets : Advt. Suspenses A/C 84,000
(2) Current Assets :
(a) Inventories : Stock 2,06,000
(b) Trade Receivables : Debtors 1,00,000
(c) Cash and Cash Equivalents :
Cash balance 50,000
Bank balance 3.00.000
Total 22 (h) (n)

Calculate the goodwill and find out the intrinsic value of shares from the following details .

- (1) Land and Buildings are to be valued at Rs. 15,00,000 and the value of other assets is considererd to be equal to their book values.
- (2) The profit of the company before tax for last four years is increasing every year by Rs. 1,20,000.
- (3) Income-tax assessment upto the 2018-2019 is completed and there remains no liability for that. The provision for taxation equal to 50% of profit is created for the current year.
- (4) Valuation of goodwill is to be calculated at two years' purchase of super profit.
- (5) The market price of the shares of the company giving 60% dividend is three times of its paid up value.

#### **Solution:** Here, value of goodwill has to be find out first.

#### **Step – 1: Net Assets = Total Assets – Total Liabilities**

Total Assets		₹
Land & Building		15,00,000
Stock		2,06,000
Debtors		1,00,000
Cash Balance		50,000
Bank Balance		3,00,000
Total Assets		21,56,000
Less: Total Liabilities: 6% Debentures	1,00,000	
Creditors	50,100	
Taxation Provision	3,00,000	4,50,100
		17,05,900
Less: 9% Preference Share Capital		5,00,000
Proposed Dividend on Preference S	hares	45,000
Net Assets / Capital Emp	oloyed	11,60,900

#### **Step – 2: Expected Profit = Capital Employed × E.R.R.**

= ₹ 11,60,900 × 20% (60% which is three times of paid up value)

#### = ₹ 2,32,180

#### **Step – 3: Find out Average Profit or Future Maintainable Profit:**

Weighted Average Profit =  $\frac{\text{Total Weighted Profit}}{\text{Total Weight}}$ 

Here, Profit of the company before tax for last four years is increasing every year by ₹ 1,20,000.

In this sum, the profit of current year is calculated on the basis of taxation provision. Because it is clear that the income-tax assessment upto the last year is completed. So we can say that the provision of taxation in the balance sheet is the provision of current year.

Here, Provision of taxation is 50% of Current year's profit and it is ₹ 3,00,000.

So, if Profit is 100% then the profit of current year is ₹ 6,00,000 (3,00,000 ×  $\frac{100}{50}$ ).

From the current year's profit we can find last three year's profit by decreasing ₹ 1,20,000 from every year's profit.

Year	Profit	Weight	Weighted Profit
2016-'17	2,40,000	1	2,40,000
2017-'18	3,60,000	2	7,20,000
2018-'19	4,80,000	3	14,40,000
2019-'20	6,00,000	4	24,00,000
Total		10	48,00,000

So, Weighted Average Profit =  $\frac{48,00,000}{10}$  = ₹ **4,80,000** 

Future Maintainable Profit:	₹
Weighted Average Profit	4,80,000
Less: Interest of 10% Govt. Securities (1,00,000 × 10%)	10,000
	4,70,000
Less: Taxes (50%)	2,35,000
	2,35,000
Less: Preference Dividend (5,00,000 × 9%)	45,000
So, Future Maintainable Profit	1,90,000

#### **Step – 4: Super Profit = Future Maintainable Profit**

- Expected Profit

#### Step – 5: Goodwill = Super Profit × No. of Purchasing years'

The value of goodwill is NIL.

Because the amount of Super Profit is negative. So, there is no goodwill of the company for current year. Now, We will find out fair value of shares and for that first we need to find Intrinsic value and Market value of share.

#### (A) Intrinsic Value of Share

#### **Step – 1: Net Assets = Total Assets – Total Liabilities**

Here, Net Assets as in goodwill11,60,900Add: Non - trade investment (10% govt. securities)1,00,000Uncalled amount of share (3,000 × 50 per share)1,50,000So, Net Assets for valuation of share14,10,900

= ₹ 141.0

**/91.09** 

**Step – 2: Intrinsic Value of Share** =  $\frac{Net Assets}{No.of Equity Shares}$ 

Fully paid Eq. Shares 
$$=\frac{14,10,900}{10,000}$$

Partly paid Eq. Shares = ₹ 141.09 – ₹ 50

#### **(B) Yield Value or Market Value:**

#### **Step – 1: Future Maintainable Profit:**

Weighted Average profit before tax as in goodwill	4,80,000
Less: Taxes (50%)	2,40,000
Profit after tax	2,40,000
Less: Preference Dividend (5,00,000 × 9%)	45,000
Profit available for Dividend	1,95,000

**Step – 2: Rate of Dividend** =  $\frac{Profit Available For Dividend}{Equity Share Capital (Paid up)} \times 100$ 

₹

$$=\frac{1,95,000}{8,50,000} \times 100$$

= 22.94 %

**Step – 3:** Market Value of Share =  $\frac{Rate \ of \ Dividend}{Normal \ Rate \ of \ Return \ (ERR)} \times Paid \ up \ Value \ of \ Share$ 

For, Fully paid 
$$=\frac{22.94}{20} \times 100$$
  $=$  **₹ 114.70**

Partly paid 
$$=\frac{22.94}{20} \times 50$$
  $=$  **₹ 57.35**

(C) Fair Value of Eq. shares =  $\frac{Intrinsic Value + Market Value}{2}$ 

Fully paid = 
$$\frac{141.09+114.70}{2}$$
 = ₹ 127.895  
Partly paid =  $\frac{91.09+57.35}{2}$  = ₹ 74.22