

$$\text{Offer price} = \frac{\text{₹ } 20,00,000}{2,50,000} = \text{₹ } 8$$

$$\text{Ex-Right} = \frac{(10,00,000 \times 13) + (2,50,000 \times 8)}{12,50,000} = 12$$

$$\text{Value of right per shares} = 13 - 12 = \text{₹ } 1$$

$$\text{Value of right} = \text{₹ } 1 \times 4 \text{ shares} = \text{₹ } 4$$

$$\text{Before right} = 100 \text{ share} \times 13 = \text{₹ } 1,300$$

**One share for 2 shares**

$$\text{Value of shares [150} \times 10] = \text{₹ } 1,500$$

$$\begin{aligned} (-) \text{ Buy right shares [50} \times 4] &= \text{₹ } 200 \\ \hline &= \text{₹ } 1,300 \end{aligned}$$

**One share for 4 shares**

$$\text{Value of shares (125} \times 12) = \text{₹ } 1,500$$

$$\begin{aligned} (-) \text{ Buy right shares (25} \times 8) &= \text{₹ } 200 \\ \hline &= \text{₹ } 1,300 \end{aligned}$$

No change in wealth.

**Question – 60**

AMKO Limited has issued 75,000 equity shares of ₹ 10 each. The current market price per share is ₹ 36. The company has a plan to make a rights issue of one new equity share at a price of ₹ 24 for every four shares held.

You are required to:

- (i) Calculate the theoretical post-rights price per share.
- (ii) Calculate the theoretical value of the right alone.

**(Exam November – 2018) (4 Marks)**

**Solution:**

**(i) Calculation of theoretical Post-rights (ex-right) price per share:**

$$\text{Ex-right value} = \left[ \frac{MN + SR}{N + R} \right]$$

Where,

M = Market price,

N = Number of old shares for a right share

S = Subscription price

R = Right share offer

$$= \left[ \frac{\text{₹ } 36 \times 4 + \text{₹ } 24 \times 1}{4 + 1} \right]$$

$$= \text{₹ } 33.60$$

**(ii) Calculation of theoretical value of the rights alone:**

= Ex-right price – Cost of rights share

$$= \text{₹ } 33.60 - \text{₹ } 24 = \text{₹ } 9.60$$

Or,

$$= \frac{\text{₹ } 33.60 - \text{₹ } 24}{4} = \text{₹ } 2.40$$

**Question – 61**

Aggressive Ltd. is proposing to fund its expansion plan of ₹ 12 crore by making a rights issue. The current market price (CMP) is ₹ 40. The Board is willing to offer a discount of 20% on the CMP for the rights issue. The Board is also desirous that the fall in Ex-right price of the shares be restricted to 10% of CMP.

CALCULATE:

- (1) The number of new equity shares to be offered for each rights held,
- (2) Theoretical value of right and
- (3) The total number of equity shares to be issued.

**(MTP Oct – 2022)**

**Solution:**

**(1) Let assume number of right shares be x**

$$\frac{(1 \times 40) + (x \times 32)}{x + 1} = 36$$

$$36 + 36x = 40 + 32x$$

$$x = 1$$

It means 1:1

**(2) Value of right**

$$= \text{CMP} - \text{Ex right}$$

$$= 40 - 36 = 4$$

**(3) No. of shares to be issued**

$$= \frac{1,20,00,000}{32} = 0.375 \text{ Cr.}$$

### **MONEY MARKET INSTRUMENTS**

#### **Question – 62**

Suppose Govt. Pays ₹ 5,000 at maturity for 91 days Treasury bill. If Mr. Y is desirous to earn an annualized discount rate of 3.5%, then how he can pay for it.

#### **Solution:**

Suppose X be the maximum amount Mr. Y can pay for Treasury bill. Then,

$$= \frac{\text{₹ } 5,000 - X}{\text{₹ } 5,000} \times \frac{360}{91} = 0.035$$

$$= \text{₹ } 5,000 - X$$

$$= \text{₹ } 44.24$$

$$X = \text{₹ } 4,955.76$$

#### **Question – 63**

RBI sold a 91-day T-bill of face value of ₹ 100 at an yield of 6%. What was the issue price?

**Solution:**

Let the issue price be X

By the terms of the issue of the T-bills:

$$6\% = \frac{100 - x}{x} \times \frac{365}{91} \times 100$$

$$\frac{6 \times 91 \times X}{36,500} = (100 - x)$$

$$0.01496x = 100 - x$$

$$x = \frac{100}{1.01496} = ₹ 98.53$$

**Question – 64**

Wonderland Limited has excess cash of ₹ 20 lakhs, which it wants to invest in short term marketable securities. Expenses relating to investment will be ₹ 50,000.

The securities invested will have an annual yield of 9%

The company seeks your advice

- (i) as to the period of investment so as to earn a pre-tax income of 5%. (discuss)
- (ii) the minimum period for the company to breakeven its investment expenditure overtime value of money.

**(SM TYK – 29)****Solution:****(i) Pre-tax Income required on investment of ₹ 20,00,000**

Let the period of Investment be 'P' and return required on investment ₹ 1,00,000 (₹ 20,00,000 × 5%)

Accordingly,

$$(\text{₹ } 20,00,000 \times \frac{9}{100} \times \frac{P}{12}) - \text{₹ } 50,000 = \text{₹ } 1,00,000$$

$$P = 10 \text{ months}$$

**(ii) Break-Even its investment expenditure**

$$(\text{₹ } 20,00,000 \times \frac{9}{100} \times \frac{P}{12}) - \text{₹ } 50,000 = 0$$

$$P = 3.33 \text{ months}$$

**Question – 65**

A bond is held for period of 45 days. The current discount yield is 6 per cent per annum. It is expected that current yield will increase by 200 basis points and current market price will come down by ₹ 2.50.

Calculate :

- i Face value of the Bond and
- ii. Bond Equivalent yield

**(Exam May – 2019) (4 Marks)**

**Solution:**

**(i) Face Value of the Bond**

$$(6\%) \text{ 45 days discount yield} = 6 \times \frac{45}{360} = 0.75$$

$$(8\%) \text{ 45 days discount yield} = 8 \times \frac{45}{360} = 1.00$$

$$\text{Change in discount yield} = 1 - 0.75 = 0.25\%$$

$$\text{Change in bond price} = \text{₹ } 2.50$$

$$\text{Hence, face value of bond} = \frac{\text{Change in Price}}{\text{Change in Discount Yield}}$$

$$= \frac{\text{₹ } 2.50}{2.5\%}$$

$$= \text{₹ } 1,000$$

**(ii) Bond Equivalent Yield**

Current market price of bond

If discount yield is 6% p.a. then ₹ 1,000 – 0.75% = ₹ 992.50

If discount yield is 8% p.a. then ₹ 1,000 – 1.00% = ₹ 900.00

At the rate of 6%	$\frac{1,000 - 992.50}{992.50} \times \frac{360}{45} \times 100 \uparrow$	6.05
At the rate of 8%	$\frac{1,000 - 990.00}{990.00} \times \frac{360}{45} \times 100 \uparrow$	8.08

**Question – 66**

From the following particulars, calculate the effective rate of interest p.a. as well as the total cost of funds to Bhaskar Ltd., which is planning a CP issue:

Issue Price of CP	₹ 97,550
Face Value	₹ 1,00,000
Maturity Period	3 Months
Issue Expenses:	
Brokerage	0.15% for 3 months
Rating Charges	0.50% p.a.
Stamp Duty	0.175% for 3 months

**(MTP October – 2020)**

**Solution:**

$$\text{Effective Interest} = \left( \frac{F - P}{P} \right) \times \frac{12}{M} \times 100$$

Substituting the given values of F, P and M we get,

$$\text{Effective Interest} = \left( \frac{1,00,000 - 97,550}{97,550} \right) \times \frac{12}{3} \times 100 = 10.05\%$$

**Cost of funds to the company**

Effective interest rate	= 10.05%
Brokerage (0.15 × 4)	= 0.6%
Rating charges	= 0.5%
Stamp duty (0.175 × 4)	= 0.75%
Total cost of Funds to Bhaskar Ltd.	= 11.9% p.a.

**Question – 67**

Bank A enter into a Repo for 14 days with Bank B in 10% Government of India Bonds 2018 @ 5.65% for ₹ 8 crore. Assuming that clean price be ₹ 99.42 and initial margin be 2% and days of accrued interest be 262 days. You are required to determine.

- (i) Dirty Price
- (ii) Repayment at maturity. (Consider 360 days in a year)

**(SM TYK – 31, MTP March & April – 2021)**

**Solution:****(i) Dirty Price**

$$\begin{aligned}
 &= \text{Clean Price} + \text{Interest Accrued} \\
 &= 99.42 + 100 \times \frac{10}{100} \times \frac{262}{360} = 106.70
 \end{aligned}$$

**(ii) First Leg (Start Proceed)**

$$\begin{aligned}
 &= \text{Nominal Value} \times \frac{\text{Dirty Price}}{100} \times \frac{100 - \text{Initial Margin}}{100} \\
 &= ₹ 8,00,00,000 \times \frac{106.70}{100} \times \frac{100 - 2}{100} = ₹ 8,36,52,800
 \end{aligned}$$

Second Leg (Repayment at Maturity)

$$= \text{Start Proceed} \times \left( 1 + \text{Repo Rate} \times \frac{\text{No. of Days}}{360} \right)$$

$$= ₹ 8,36,52,800 \times \left( 1 + 0.0565 \times \frac{14}{360} \right)$$

$$= ₹ 8,38,36,604$$

**Question – 68**

The Bank BK enters into a Repo for 9 days with Bank NE in 6% Government bonds 2022 for an amount of ₹ 2 crore. The other relevant details are as follows:

First Leg Payment (Start Proceed)	₹ 2,00,06,750
Second Leg Payment (Repayment Proceed)	₹ 2,00,31,759
Initial Margin	1.25%
Days of accrued interest	240

Assume 360 days in a year.

CALCULATE:

- (1) Repo Rate
- (2) Dirty Price and
- (3) Clean Price

**(MTP Oct – 2022)**

**Solution:**

**(1) Second Leg** = Start Proceed  $\times \left( 1 + \text{Repo Rate} \times \frac{\text{No.of days}}{360} \right)$

$$₹ 2,00,31,759 = ₹ 2,00,06,750 \times \left( 1 + \text{Repo Rate} \times \frac{9}{360} \right)$$

$$1.00125 = \left( 1 + \text{Repo Rate} \times \frac{9}{360} \right)$$

$$\text{Repo Rate} = 0.05 = 5\%$$

**(2) First Leg (Start Proceed)**

$$= \text{Nominal Value} \times \frac{\text{Dirty Price}}{100} \times \frac{100 - \text{Initial Margin}}{100}$$

$$₹ 2,00,06,750 = ₹ 2,00,00,000 \times \frac{\text{Dirty Price}}{100} \times \frac{100 - 1.25}{100}$$

$$10003.375 = 98.75 \times \text{Dirty Price}$$

$$\text{Dirty Price} = ₹ 101.30$$

**(3) Dirty Price** = Clean Price + Interest Accrued

$$101.30 = \text{Clean Price} + 100 \times \frac{240}{360} \times 6\%$$

$$\text{Clean Price} = ₹ 97.30$$

### RESIDUAL

#### Question – 69

Following Financial data are available for PQR Ltd. for the year 2008:

	(₹ in lakh)
8% debentures	125
10% bonds (2007)	50
Equity shares (₹ 10 each)	100
Reserves and Surplus	300
Total Assets	600
Assets Turnovers ratio	1.1
Effective interest rate	8%
Effective tax rate	40%
Operating margin	10%
Dividend payout ratio	16.67
Current market Price of Share	14
Required rate of return of investors	15%

You are required to:

- (i) Draw income statement for the year
- (ii) Calculate its sustainable growth rate of earnings
- (iii) Calculate the fair price of the Company's share using dividend discount model, and
- (iv) What is your opinion on investment in the company's share at current price?

**(SM TYK – 12 & RTP May – 2020)**

**Solution:**

**(i) Income Statement**

Sales (600 × 1.10)	₹ 660
(-) Operating Ratio (660 × 90%)	₹ 594
EBIT	₹ 66
(-) Interest [(125 + 50) × 8%]	₹ 14
EBT	₹ 52
(-) Tax 40%	₹ 20.80
EAT	31.20
(÷) No. of Shares	10
EPS	3.12
DPS (16.67%)	0.52

**(ii) Sustainable Growth Rate**

$$g = b \times r$$

$$b = 1 - 0.1667 = 0.8333$$

$$\text{ROE (r)} = \frac{\text{EAT}}{\text{Equity}} \times 100$$

$$= \frac{31.20}{300 + 100} \times 100$$

$$= 7.8 \%$$

$$g = 0.8333 \times 0.078 = 0.065$$

$$= 6.5\%$$

**(iii) Price (P<sub>0</sub>)**

$$P_0 = \frac{D_1}{K_e - g}$$

$$= \frac{0.52 \times (1.065)}{0.15 - 0.065}$$

$$= ₹ 6.52$$

**(iv) Actual Price = 14**

Share is overpriced hence should not be purchased.

**Question – 70**

Tiger Ltd. is presently working with an Earning Before Interest and Taxes (EBIT) of ₹ 90 lakhs. Its present borrowings are as follows:

	₹ in lakhs
12% term loan	300
Working capital borrowings:	
From Bank at 15%	200
Public Deposit at 11%	100

The sales of the company are growing and to support this, the company proposes to obtain additional borrowing of ₹ 100 lakhs expected to cost 16%. The increase in EBIT is expected to be 15%.

Calculate the change in interest coverage ratio after the additional borrowing is effected and comment on the arrangement made.

**Solution:**

$$\text{Interest Coverage Ratio} = \frac{\text{EBIT}}{\text{Interest}}$$

$$\text{Present} = \frac{90}{77}$$

$$= 1.69$$

$$\text{Proposed} = 90 \times 1.15$$

$$= 103.50$$

$$\text{Interest} = 77 + 100 \times 16\%$$

$$= 93$$

$$\text{Interest Coverage} = \frac{103.50}{93} = 1.113$$

Since interest coverage ratio is decreasing hence proposal should be accepted.

**Question – 71**

Capital structure of Sun Ltd., as at 31.3.2003 was as under:

<b>(₹ lakhs)</b>	
Equity share capital	80
8% Preference share capital	40
12% Debentures	64
Reserves	32

Sun Ltd., earns a profit of ₹ 32 lakhs annually on an average before deduction of income-tax, which works out to 35%, and interest on debentures.

Normal return on equity shares of companies similarly placed is 9.6% provided:

- (a) Profit after tax covers fixed interest and fixed dividends at least 3 times.
- (b) Capital gearing ratio is 0.75.
- (c) Yield on share is calculated at 50% of profits distributed and at 5% on undistributed profits.

Sun Ltd., has been regularly paying equity dividend of 8%.

Compute the value per equity share of the company.

- (i) 1% for every time of difference for interest and fixed dividend coverage ratio.
- (ii) 2% for every time of difference for capital gearing ratio.

**(SM TYK – 07)**

**Solution:****Income Statement**

EBIT	32,00,000
(-) Interest (64,00,000 × 12 %)	7,68,000
EBT	24,32,000

(-) Tax @ 35%	8,51,200
EAT	15,80,800
(-) PD (40,00,000 × 8 %)	3,20,000
Earning	12,60,800
Dividend (8,000,000 × 8%)	6,40,000 (Distributed Profit)
Undistributed Profit	6,20,800
Yield (Income)	= (6,40,000 × 50%) + (6,20,800 × 5%)
	= 3,51,040

**Required Rate of Return after Risk Adjustment****(1) Coverage Ratio**

$$= \frac{\text{PAT} + \text{INTEREST}}{\text{INTEREST} + \text{PD}}$$

$$= \frac{15,50,800 + 7,68,000}{7,68,000 + 3,20,000}$$

$$= 2.16$$

Coverage ratio is less than 3 times it means higher risk.

**(2) Capital Gearing Ratio**

$$= \frac{\text{PSC} + \text{Debt}}{\text{ESC} + \text{R \& S}}$$

$$= \frac{40,00,000 + 64,00,000}{80,00,000 + 32,00,000}$$

$$= 0.93$$

Capital gearing ratio is more than 0.75. It means higher risk.

**Required Yield**

Similar Yield 9.6%

(+) Risk Adjustment

Coverage Ratio

$$(3 - 2.16) = 0.84 \times 1 \quad 0.84\%$$

(+) Risk Adjustment for Capital Gearing Ratio

$$(0.93 - 0.75) = 0.18 \times 2 \quad 0.36\%$$


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$$10.80\%$$

**Value per Share**

$$P_0 = \frac{\text{Yield on Equity}}{\text{Required Yield}} \times \text{per share}$$

$$\text{Yield} = \frac{3,51,040}{8,00,000} \times 100 = 4.368\%$$

$$P_0 = \frac{4.388\%}{10.80\%} \times 100 = ₹ 40.63 \quad \text{Assume} = ₹ 100 \text{ (FV)}$$

**Question – 72**

AB Industries has Equity Capital of ₹ 12 Lakhs, total Debt of ₹ 8 Lakhs, and annual sales of ₹ 30 Lakhs. Two mutually exclusive proposals are under consideration for the next year. The details of the proposals are as under:

Particulars	Proposal No. 1	Proposal No. 2
Target Assets to Sales Ratio	0.65	0.62
Target Net Profit Margin (%)	4	5
Target Debt Equity Ratio (DER)	2:3	4:1
Target Retention Ratio (of Earnings) (%)	75	-
Annual Dividend (₹ In Lakhs)	-	0.30
New Equity Raised (₹ in Lakhs)	-	1

You are required to calculate sustainable growth rate for both the proposals.

**(Exam November – 2020) (8 Marks)**

**Solution:**

**Proposal I:**

$$\begin{aligned}\text{ROE} &= 4 \times \frac{1}{0.65} \times \frac{5}{3} \\ &= 10.26\%\end{aligned}$$

$$\begin{aligned}g &= b \times r \\ &= 0.75 \times 0.1026 \\ &= 0.0770 \\ &= 7.70\%\end{aligned}$$

**Proposal II:**

$$\begin{aligned}\text{ROE} &= 5 \times \frac{1}{0.65} \times \frac{5}{1} \\ &= 40.32\%\end{aligned}$$

$$\text{Target Equity} = 12 + 1 = 13 \text{ lakh}$$

$$\text{Debt} = 13 \times 4 = 52 \text{ lakh}$$

$$\text{Total Asset} = 13 \text{ lakh} + 52 \text{ lakh} = 65 \text{ lakh}$$

$$\text{TA to Sales} = \frac{65}{0.62} = 104.84$$

$$\begin{aligned}\text{Net Profit} &= 104.84 \times 5\% \\ &= 5.242\end{aligned}$$

$$\begin{aligned}b &= \frac{5.242 - 0.30}{5.242} \times 100 \\ &= 0.943\end{aligned}$$

$$\begin{aligned}g &= 0.943 \times 0.4032 \\ &= 38\%\end{aligned}$$

**ADDITIONAL QUESTIONS**

**Question – 01**

Following information is related to the 7.50% Convertible bond of S Ltd. which is currently priced at ₹ 5,300 per bond:

- Conversion Parity Price = ₹ 265
- Conversion Premium (Based on Market Price) = 10.41667%
- Percentage of Downside Risk based on Straight Value of Bond = 12.766%

Required:

- (i) Calculate No. of shares on Conversion.
- (ii) Analyze Current Market Price Per Share of S Ltd.
- (iii) Assess the Straight Value of Bond.
- (iv) Based on straight value of bond computed above, determine the approximate required rate of return by an investor on similar category of bonds.

Note: Use following Present Value Factors (PVFs) for various calculations:

	1	2	3	4	5
<b>PVF @ 8%</b>	0.9259	0.8573	0.7938	0.7350	0.6806
<b>PVF @ 10%</b>	0.9091	0.8264	0.7513	0.6830	0.6209

**(MTP April – 2025)**

**Solution:**

$$(i) \quad \text{Conversion Parity Price} = \frac{\text{Bond Price}}{\text{No. of Shares on Conversion}}$$

$$₹ 265 = \frac{5,300}{\text{No. of Shares on Conversion}}$$

$$\text{No. of Shares on Conversion} = 20 \text{ Shares}$$

$$(ii) \quad \text{Conversion Premium} = \frac{(\text{Conversion Parity Price} - \text{Market Price})}{\text{Market Price}} \times 100$$

$$10.41667\% = \frac{(\text{₹ } 265 - \text{Market Price})}{\text{Market Price}} \times 100$$

$$\text{Market Price} = \text{₹ } 240$$

(iii) Percentage of Downside Risk

$$= \frac{\text{Market Price of Bond} - \text{Straight Value of Bond}}{\text{Straight Value of Bond}} \times 100$$

$$12.766\% = \frac{(\text{₹ } 5,300 - \text{Straight Value of Bond})}{\text{Straight Value of Bond}} \times 100$$

$$\text{Straight Value of Bond} = \text{₹ } 4,700$$

(iv) To determine the required return, we shall discount related cash flows as follows:

**PV@8%**

Year	Cash Flow	PVF	PV
0	-4,700	1	-4,700
1	375	0.9259	347.21
2	375	0.8573	321.49
3	375	0.7938	297.68
4	375	0.7350	275.63
5	5,375	0.6806	3,658.23
			<b>200.23</b>

**PV@10%**

Year	Cash Flow	PVF	PV
0	-4,700	1	-4,700
1	375	0.9091	340.91
2	375	0.8264	309.90
3	375	0.7513	281.74
4	375	0.6830	256.13
5	5,375	0.6209	3,337.34
			<b>-173.99</b>

Calculation of Required return using IRR

$$= 8\% + \frac{200.23}{200.23 + 173.99} \times 2\%$$

$$= 8\% + \frac{200.23}{374.22} \times 2\% = 8\% + 1.07\% = 9.07\%$$

**Question - 02**

TK Ltd. has ₹ 600 Lakh 12% Debenture outstanding with 5 years remaining to redemption. Since interest rates are decreasing, company is planning to redeem these debentures with a ₹ 600 Lakh issue of 5 years 10% Debenture at par. Issued Cost of 10% Debenture will be ₹ 10 Lakh. Premium paid on redemption of 12% Debenture is 5% Tax rate applicable to company 15, is 20%

You are required to advise on the 12% Debenture Redemption Decision.

PVF @ 10% & 8% are as under —

Rate	1	2	3	4	5
8%	0.93	0.86	0.79	0.74	0.68
10%	0.91	0.83	0.75	0.68	0.62

Calculation up to 2 decimal points.

**(Exam September - 2025)**

**Solution:**

<b>(i) Calculation of initial outlay:-</b>	<b>₹ (Lakh)</b>
a. Face value	600
Add: Call premium	30
Less: Tax on Premium of Redemption	<u>6</u>
Cost of calling old bonds	<u>624</u>
b. Gross proceed of new issue	600
Less: Issue costs	<u>10</u>
Net proceeds of new issue	<u>590</u>
∴ Initial outlay = ₹ 624 Lakh – ₹ 590 Lakh = ₹ 34 Lakh	

**(ii) Calculation of net present value of refunding the bond:**

## SECURITY VALUATION

Saving in annual interest expenses	₹ (Lakh)
[600 × (0.12 – 0.10)]	12.00
Less: Tax saving on interest (0.20 × 12)	2.40
Add: Tax Saving on Issue Exp. (10/5) × 0.20	<u>0.40</u>
Annual net cash saving	<u>10.00</u>
PVIFA (8%, 5 years)	4.00
∴ Present value of net annual cash saving	₹ 40.00 Lakh
Less: Initial outlay	<u>₹ 34.00 Lakh</u>
Net present value of refunding the bond	<u>₹ 6.00 Lakh</u>

**Decision:** 12% Debentures should be redeemed and new 10% Debentures should be issued because NPV of Bond Refunding decision is positive.

**Alternative Solution:** Since in the Question specifically nothing has been mentioned about the writing off Issue Expenses for 10% Debentures, if students have assumed it to be written off at the time of issue in one go then solution will be as follows:

<b>(i) Calculation of initial outlay:-</b>	<b>₹ (Lakh)</b>
a. Face value	600
Add: Call premium	30
Less: Tax on Premium of Redemption	6
Cost of calling old bonds	624
b. Gross proceed of new issue	600
Less: Issue costs	10
Add: Tax Saving on Issue Expenses	2
Net proceeds of new issue	592
∴ Initial outlay = ₹ 624 Lakh – ₹ 592 Lakh = ₹ 32 Lakh	

**(ii) Calculation of net present value of refunding the bond:-**

## SECURITY VALUATION

Saving in annual interest expenses	₹ (Lakh)
[600 × (0.12 – 0.10)]	12.00
Less: Tax saving on interest (0.20 × 12)	<u>2.40</u>
Annual net cash saving	<u>9.60</u>
PVIFA (8%, 5 years)	4.0
∴ Present value of net annual cash saving	₹ 38.40 Lakh
Less: Initial outlay	<u>₹ 32.00 Lakh</u>
Net present value of refunding the bond	<u>₹ 6.40 Lakh</u>

**Decision:** 12% Debentures should be redeemed and new 10% Debentures should be issued because NPV of Bond Refunding decision is positive.