Roll. No $\qquad$
Total No. of Question-6
Maximum Marks : 60

## Test Paper with Solutions

## Financial Management

## CA-Intermediate (May 2023)

## Examination

## Disclaimer Clause :

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- Views and Answers provided may differ from ICAI due to difference in assumptions taken in support of the answers .
- In such case answers as provided by "ICAl" will be deemed as final .

Answers to questions are to be given only in English except in the case of candidates who have opted for Hindi Medium. If a candidate who has not opted for Hindi Medium,
his/her answers in Hindi will not be valued.

## Section - A

Question No. 1 is compulsory.

Candidates are also required to answer any Four questions from the remaining Five questions. Working notes should form part of the respective answers.

1. (a) Following information are given for a company :

| Earnings per share | $₹ 10$ |
| :--- | :---: |
| P/E ratio | 12.5 |
| Rate of return on investment | $12 \%$ |
| Market price per share as per Walter's model | $₹ 130$ |

You are required to calculate :
(i) Dividend payout ratio.
(ii) Market price of share at optimum dividend payout ratio.
(iii) P/E ratio, at which the dividend policy will have no effect on the price of share.
(iv) Market price of share at this P/E ratio.
(v) Market price of share using Dividend growth model.
(5 Marks)

Sol. (1) (a)
(i) Calculation of Dividend Payout Ratio

As per Walter's model

$$
\begin{aligned}
& P=\frac{D+\frac{r}{K e}(E-D)}{K e} \\
& 130=\frac{D+\frac{0.12}{0.08}(10-D)}{0.08}
\end{aligned}
$$

$\therefore \mathrm{D}=9.20$
$\therefore$ Dividend Payout ratio $=\frac{9.2}{10} \times 100=92 \%$
(ii) Since $r>\mathrm{Ke}$, optimum dividend payout ratio should be $100 \%$ Therefore MPS at $100 \%$ Div Payout ratio is :

$$
P=\frac{D+\frac{r}{K e}(E-D)}{K e}=\frac{0+\frac{0.12}{0.08}(10-0)}{0.08}=₹ 187.50
$$

(iii) Dividend Policy shall have no effect on the price of share when Ke will be equal to $r$

$$
\therefore \mathrm{P} / \mathrm{Er}=\frac{1}{\mathrm{Ke}}=\frac{1}{0.12}=8.33
$$

(iv) MPS at this P / E ratio

$$
P=\frac{D+\frac{r}{K e}(E-D)}{K e}=\frac{9.2+\frac{0.12}{0.12}(10-9.2)}{0.12}=₹ 83.33
$$

(v) MPS using Dividend Growth Model

$$
\begin{aligned}
& \therefore \mathrm{Ke}=\frac{\mathrm{D}}{\mathrm{P}}+\mathrm{g} \quad \text { Or } P=\frac{E(1-b)}{K e-b r} \\
& \therefore \mathrm{Po}=\frac{\mathrm{D}}{\mathrm{Ke}-\mathrm{g}}=\frac{9.2}{0.08-(0.12 \times 0.08)}=\frac{9.2}{0.08-0.0096}=₹ 130.68
\end{aligned}
$$

Here $g=$ roi $x$ retention ratio

1. (b) A company has current sale of $₹ 12$ lakhs per year. The profit-volume ratio is $20 \%$ and post-tax of investment in receivables is $15 \%$. The current credit terms are $1 / 10$, net 50 days and average collection period is 40 days. 50\% of customers in terms of sales revenue are availing cash discount and bad debt is $2 \%$ of sales.
In order to increase sales, the company want to liberalize its existing credit terms to $2 / 10$, net 35 days. Due to which, expected sales will increase to ₹ 15 lakhs. Percentage of default in sales will remain same.
Average collection period will decrease by 10 days. $80 \%$ of customers in terms of sales evenue are expected to avail cash discount under this proposed policy.
Tax rate is $30 \%$.
ADVISE, should the company change its credit terms. (Assume 360 days in a year.)
(5 Marks)

Sol. 1
(b)

Evaluation of Credit Policy
₹
(A) Contribution on Incremental sales
(B) Incremental Bad Debts
(C) Saving of Interest

Cost of Debtors
Before $12 \mathrm{~L} \times 80 \% \times 40 / 360=1,06,667$
After $15 \mathrm{~L} \times 80 \% \times 30 / 360=1,00,000$
Decrease in COD $\quad$ 6,667
Saving of Interest @ 21.43\%*

60,000
6,000

1,429
*Here before tax interest rate $=15 / 0.70=21.43 \%$
(D) Cost of Cash Discount

| Before $12 \mathrm{~L} \times 50 \% \times 1 \%$ | $=$ | 6,000 |  |
| :--- | :--- | :--- | :--- |
| After $15 \mathrm{~L} \times 80 \% \times 2 \%$ | $=\quad \underline{4,000}$ | $\underline{18,000}$ |  |

Net Benefit Before Tax
$\begin{array}{ll}\text { (A B + C - D) } & 37,429 \\ -\quad \text { Tax @ 30\% } & \underline{11,229} \\ \text { Net Benefit After Tax } & \underline{26,200}\end{array}$

The company should change its credit terms as it gives a net profit after tax of $\mathbf{₹} \mathbf{2 6 2 0 0}$

## Alternative Manner of Solution

|  | Particulars |  | Present Policy <br> (1/10 Net 50) | Proposed Policy <br> (2/10 Net 35) |
| :---: | :---: | :---: | :---: | :---: |
| A | Avg. Collection Period | (Days) | 40 | 30 |
| B | Credit Sales |  | 12,00,000 | 15,00,000 |
| C | Variable Cost @ 80\% of Sales |  | 9,60,000 | 12,00,000 |
| D | Bad Debts @ 2\% of Sales |  | 24,000 | 30,000 |
| E | Cash Discount |  |  |  |
|  | $\rightarrow$ Present : (12,00,000 $\times 50 \% \times 1 \%$ ) |  | 6,000 | - |
|  | $\rightarrow$ Proposed : (15,00,000 $\times 80 \% \times 2 \%$ ) |  | - | 24,000 |
| F | Profit Before Tax | ( $\mathrm{B}-\mathrm{C}-\mathrm{D}-\mathrm{E}$ ) | 2,10,000 | 2,46,000 |
| G | Profit After Tax | (PBT x 70\%) | 1,47,000 | 1,72,200 |
| H | Investment in Receivable |  | - |  |
|  | Variable Cost x ACP |  |  |  |
|  | 360 |  | 1,06,667 | 1,00,000 |
| I | Opportunity Cost @ 15\% | (Post-tax) | 16,000 | 15,000 |
| J | Net Benefit | (G-I) | 1,31,000 | 1,57,200 |
|  |  |  |  |  |

The company should change its credit terms as it gives a net incremental profit after tax of ₹ 26200

1. (c) A company wants to invest in a project. This requires an initial investment of $₹ 4,50,000$.

Salvage value after estimated useful life of 5 years is ₹ 50,000 . Other details of project are as follows:

|  | Worst case | Most likely | Best case |
| :--- | :---: | :---: | :---: |
| Contribution (₹) | $3,30,000$ | $5,40,000$ | $6,31,250$ |
| Fixed cost (excluding deprecation) (₹) | 75,000 | $1,50,000$ | $2,00,000$ |

Tax rate is $40 \%$. Expected cost of capital of project is $12 \%$. Ignore tax on capital gain.
(i) Calculate NPV in each scenario.
(ii) The company is certain about most likely result in first two years, but uncertain about remaining period. In such a situation, calculate NPV expecting worst case scenario during next two years and best case scenario in the remaining period.

| Years | 1 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PVIF $_{0.12, \mathbf{t}}$ | 0.893 | 0.797 | 0.712 | 0.636 | 0.567 |
| PVIF $_{0.12, \mathbf{t}}$ | 0.893 | 1.690 | 2.402 | 3.038 | 3.605 |

(5 Marks)
Sol. 1. (c) (i)

| Particulars | Worst Case | Most Likely | Best Likely |
| :---: | :---: | :---: | :---: |
| Contribution | 330,000 | 540,000 | 631,250 |
| Less : Fixed Cost | 75,000 | 150,000 | 200,000 |
| PBDT | 255,000 | 390,000 | 431,250 |
| Less : Tax @ 40\% | 102,000 | 156,000 | 172,500 |
| C.F.A.T | 153,000 | 234,000 | 258,750 |
| Add : Tax benefit on Dep. | 32,000 | 32,000 | 32,000 |
| Net CFAT | 185,000 | 266,000 | 290,750 |
| Sum. PVF @ 12\% | 3.605 | 3.605 | 3.605 |
| Present Value of CFAT | 666,925 | 958,930 | 1,048,154 |
| Present Value of Salvage |  |  |  |
| 50,000 $\times 0.567$ | 28,350 | 28,350 | 28,350 |
| PVIF | 695,275 | 987,280 | 1,076,504 |
| Less: PVOF | 450,000 | 450,000 | 450,000 |
| NPV | 245,275 | 537,280 | 626,504 |

(ii)

Calculation of Net Present Value

| Year | CFAT | PVF @ 12\% | PV of CFAT |
| :---: | ---: | ---: | ---: |
| 1 | 266,000 | 0.893 | 237,538 |
| 2 | 266,000 | 0.797 | 212,002 |
| 3 | 185,000 | 0.712 | 131,720 |
| 4 | 185,000 | 0.636 | 117,660 |
| 5 | 290,750 | 0.567 | 164,855 |
| 5 | 50,000 | 0.567 | 28,350 |
|  |  |  |  |
|  |  | PVIF | 892,125 |
|  |  | Less : PVOF | 450,000 |
|  |  |  | 442,125 |

1. (d) Following information is given for X Ltd.:

| Total contribution (₹) | $4,25,000$ |
| :--- | :---: |
| Operating leverage | 3,125 |
| $15 \%$ Preference shares (₹ 100 each) | 1,000 |
| Number of equity shares | 2,500 |
| Tax rate | $50 \%$ |

Calculate EPS of X Ltd., if $40 \%$ decrease in sales will result EPS to zero.
(5 Marks)

## Sol.

Calculation of EPS

| Particulars | Amount |
| :--- | ---: |
| Contribution | 425,000 |
| Less : Fixed Cost | 289,000 |
| EBIT | 136,000 |
| Less : Interest | $-64,000$ |
| EBT | 200,000 |
| Less : Tax @ 50\% | 100,000 |
| EAT | 100,000 |
| Less : Dp | 15,000 |
| EAS | 85,000 |
| INo. of ES | 2,500 |
| EPS | 34 |

There seems some mistake in this question. However we have solved it as per the information given in it.
$\mathrm{OL}=\frac{\mathrm{C}}{\mathrm{EBIT}}$
$3.125=\frac{425000}{\text { EBIT }}$
$\therefore \mathrm{EBIT}=136000$
DCL $=\frac{\text { \% change in EPS }}{\text { \%Change in Sales }}$
$=\frac{100}{40}=2.5 t$
$\because D C L=\frac{C}{\text { EBIT }-\vdash \frac{D P}{(1-t)}}$
$\therefore 2.5=\frac{425000}{136000-1-30000}$

$$
I=-64000
$$

2. Following information and ratios are given in respect of AQUA Ltd. for the year ended $31^{\text {st }}$ March, 2023:

| Current ratio | 4.0 |
| :--- | :--- |
| Acid test ratio | 2.5 |
| Inventory turnover ratio (based on sales) | 6 |
| Average collection period (days) | 70 |
| Earnings per share | $₹ 3.5$ |
| Current liabilities | $₹ 3,10,000$ |
| Total assets turnover ratio (based on sales) | 0.96 |
| Cash ratio | 0.43 |
| Proprietary ratio | 0.48 |
| Total equity dividend | $₹ 1,75,000$ |
| Equity dividend coverage ratio | 1.60 |

Assume 360 days in a year.
You are required to complete Balance Sheet as on $31^{\text {st }}$ March, 2023.
Balance Sheet as on $31^{\text {st }}$ March, 2023

| Liabilities | ₹ | Assets | $₹$ |
| :--- | :---: | :--- | :---: |
| Equity share capital <br> (₹ 10 per share) | xxx | Fixed Assets | xxx |
| Reserves \& Surplus | xxx | Inventory | xxx |
| Long-term debt | xxx | Debtors | xxx |
| Current liabilities | $3,10,000$ | Loans \& Advances | xxx |
|  |  | Cash \& bank | xxx |
| Total | xxx | Total | xxx |

Sol.

| AQUA Limited <br> Balance Sheet as on 31.03.2023 |  |  |  |
| :--- | :---: | :--- | :---: |
| Liabilities | Amount |  | Assets |
| Equity Share Capital | 800,000 | Fixed Assets | Amount |
| Reserve \& Surplus | 595,000 | Inventory | $\mathbf{1 , 6 6 6 , 2 5 0}$ |
| Long Term Debt | $\mathbf{1 , 2 0 1 , 2 5 0}$ | Debtors | 465,000 |
| Current Liabilities | 310,000 | Loans \& Advances | 542,500 |
|  | Cash \& Bank | 99,200 |  |
|  | $\mathbf{2 , 9 0 6 , 2 5 0}$ |  | $\mathbf{1 3 3 , 3 0 0}$ |
|  |  | $\mathbf{2 , 9 0 6 , 2 5 0}$ |  |

$$
\begin{aligned}
& \text { C.L. }=₹ 310000 \\
& \because \quad C R=4 \\
& \because \quad C A=1240000 \\
& \text { Acid Test } \mathrm{R}=\frac{\mathrm{CA}-\text { Stock }}{\mathrm{CL}} \\
& 2.5=\frac{1240000-\text { Stock }}{310000} \\
& \therefore \quad \text { Stock }=465000 \\
& \text { Inventory Turnover Ratio }=\frac{\text { Sales }}{\text { Stock }} \\
& \therefore \quad \text { Sales }=465000 \times 6=27,90,000 \\
& \text { Debtors }=\text { Net Credit Sales } \times \text { ACP / } 360 \\
& \text { Debtors }=27,90,000 \times 70 / 360=5,42,500 \\
& \text { Total Assets Turnover Ratio = Sales / Total Assets } \\
& \text { Total Assets }=27,90,000 / 0.96=29,06,250 \\
& \text { Equity Dividend Coverage Ratio = EAS / Equity Dividend } \\
& \text { EAS }=1,75,000 \times 1.6=2,80,000 \\
& \text { EPS = EAS / Number of Equity Shares } \\
& \text { Number of Equity Shares }=2,80,000 / 3.5=80,000 \\
& \text { Equity Share Capital }=80,000 \times 10=8,00,000 \\
& \text { Proprietary ratio }=\text { Proprietors fund } / \text { Total Assets } \\
& \text { Proprietors Fund }=29,06,250 \times 0.48=13,95,000 \\
& \text { Less : Equity Share Capital } \quad \underline{8,00,000} \\
& \text { Reserves and Surplus } \quad=\underline{5,95,000}
\end{aligned}
$$

Cash Ratio = Cash Reservoir / C. L.
Cash Balance is $=3,10,000 \times 0.43=1,33,300$
3. The following information pertains to CIZA Ltd. :

| Capital Structure : | $₹$ |
| :--- | :---: |
| Equity share capital (₹ 10 each) | $8,00,000$ |
| Retained earnings | $20,00,000$ |
| $9 \%$ Preference share capital (₹100 each) | $12,00,000$ |
| $12 \%$ Long-term loan | $10,00,000$ |
| Interest coverage ratio | 8 |
| Income tax rate | $30 \%$ |
| Price - earnings ratio | 25 |

The company is proposed to take up an expansion plan, which requires an additional investment of ₹ $34,50,000$. Due to this proposed expansion, earnings before interest and taxes of the company will increase by ₹ $6,15,000$ per annum. The additional fund can be raised in following manner :

- By issue of equity shares at present market price, or
- By borrowing 16\% Long-term loans from bank.

You are informed that Debt-equity ratio (Debt / Shareholders' fund) in the range of $50 \%$ to $80 \%$ will bring down the price-earnings ratio to 22 whereas; Debt-equity over $80 \%$ will bring down the priceearrings ratio to 18 .
Required:
Advise which option is most suitable to raise additional capital so that the Market Price per Share (MPS) is maximised.
(10 Marks)
Sol. Evaluation of Financial Options: Calculation of MPS

| Particulars | Existing | $\mathbf{a}$ | b |
| :--- | :---: | :---: | :---: |
| EBIT | 960,000 | $1,575,000$ | $1,575,000$ |
| Less : Interest |  |  |  |
| existing |  |  | 120,000 |
| new | 120,000 | 120,000 | 552,000 |
| EBT | - | - |  |
| Less : Tax | 840,000 | $1,455,000$ | 903,000 |
| EAT | 252,000 | 436,500 | 270,900 |
| Less : Dp | 588,000 | $1,018,500$ | 632,100 |
| EAS | 108,000 | 108,000 | 108,000 |
| $\div$ No | 480,000 | 910,500 | 524,100 |
| EPS | 80,000 | 103,000 | 80,000 |
| x P/E | 6.00 | 8.84 | 6.55 |
| MPS | 25 | 25 | 18 |
|  |  | 150.00 | 221.00 |

Option A of issuing Equity Share is the most suitable option having maximum MPS.

## Working Note ：

1．Interest Coverage Ratio $=$ EBIT $/$ Interest
$\therefore$ Existing EBIT $=120000 \times 8=960000$

2．New No．of Equity Shares to be issued

$$
=\frac{\text { Amt required }}{\operatorname{MPS}}=\frac{3450000}{150}=23000
$$

3. 

| Debt／Equity Ratio | Plan |  |
| :--- | :---: | :---: |
|  | a | b |
| Debt |  |  |
| Existing | $1,000,000$ | $1,000,000$ |
| New | - | $3,450,000$ |
| Equity | $4,000,000$ | $4,000,000$ |
| Existing | $3,450,000$ | - |
| New |  |  |
|  | $1,000,000$ | $4,450,000$ |
| D／E ratio $=$ | $7,450,000$ | $4,000,000$ |
|  |  | 13.42 |

4．Capital structure of D Ltd．as on 315 March， 2023 is given below ：

| Particulars | $₹$ |
| :--- | :---: |
| Equity share capital（₹ 10 each） | $30,00,000$ |
| 8\％Preference share capital（₹100 each） | $10,00,000$ |
| 12\％Debentures（₹100 each） | $10,00,000$ |

－Current market price of equity share is ₹ 80 per share．The company has paid dividend of ₹ 14.07 per share．Seven years ago，it paid dividend of ₹ 10 per share．Expected dividend is ₹ 16 per share．
－ $8 \%$ Preference shares are redeemable at $6 \%$ premium after five years．Current market price per preference share is ₹ 104.
－ $12 \%$ debentures are redeemable at $20 \%$ premium after 10 years．Flotation cost is ₹ 5 per debenture．
－The company is in $40 \%$ tax bracket．
－In order to finance an expansion plan，the company intends to borrow 15\％Long－term loan of ₹ $30,00,000$ from bank．This financial decision is expected to increase dividend on equity share from ₹16 per share to ₹ 18 per share．However，the market price of equity share is expected to decline from ₹ 80 to $₹ 72$ per share，because investors＇required rate of return is based on current market conditions．

## Required:

(i) Determine the existing Weighted Average Cost of Capital (WACC) taking book value weights.
(ii) Compute Weighted Average Cost of Capital (WACC) after the expansion plan taking book value weights.

| Interest Rate | $1 \%$ | $2 \%$ | $3 \%$ | $4 \%$ | $5 \%$ | $6 \%$ | $7 \%$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FVIF $_{1,5}$ | 1.051 | 1.104 | 1.159 | 1.217 | 1.276 | 1.338 | 1.403 |
| FVIF $_{1,6}$ | 1.062 | 1.126 | 1.194 | 1.265 | 1.340 | 1.419 | 1.501 |
| FVIF $_{1,7}$ | 1.072 | 1.149 | 1.230 | 1.316 | 1.407 | 1.504 | 1.606 |

(10 Marks)
Sol. (i)
Calculation of Existing Weighted Average Cost Of Capital

| Sources | Amt | Kx | Wx | Kx Wx |
| :--- | :---: | :---: | :---: | :---: |
| ESC | 30 L | $25.00 \%$ | 0.6 | 15 |
| $8 \%$ PSC | 10 L | $8.00 \%$ | 0.2 | 1.6 |
| $12 \%$ Debt | 10 L | $9.02 \%$ | 0.2 | 1.8 |
|  | 50 L |  | 1 | 18.4 |

$\mathrm{WACC}=\quad=\quad=\quad \frac{18.4}{1} \quad=18.4 \%$

## Working Note :

1. $\mathrm{Ke}=\left(\frac{\mathrm{D} 1}{\mathrm{Po}}+\mathrm{g}\right) \times 100=\left(\frac{16}{80}+\bullet 05\right) \times 100=25 \%$
$\because \mathrm{D} 7=\mathrm{Do}(1+\mathrm{g})^{7}$
$\therefore(1+\mathrm{g})^{7}=\frac{14.07}{10}=1.407$
From the given table of FVIF, $g=5 \%$
2. $\mathrm{Kp}=\frac{\mathrm{D}+\left(\frac{\mathrm{RV}-N P}{n}\right)}{\frac{R V+N P}{2}} \times 100$
$=\frac{8+\frac{106-104}{2}}{\frac{106+104}{2}} \times 100=\frac{8.40}{105} \times 100=8 \%$
3. $K d=\frac{I(l-t)+\frac{R V-N P}{n}}{R V+N P} \times 100$

$$
=\frac{7.2+2.5}{107.5} \times 100=9.02 \%
$$

(ii) Calculation of Revised Weighted Average Cost Of Capital (After Expansion)

| Sources | Amt | Kx | Wx | KxWx |
| :--- | :---: | :---: | :---: | :---: |
| ESC | 30 L | $30.00 \%$ | 0.375 | 11.3 |
| $8 \%$ PSC | 10 L | $8.00 \%$ | 0.125 | 1.0 |
| $12 \%$ Debt | 10 L | $9.02 \%$ | 0.125 | 1.1 |
| $15 \%$ LTL | 30 L | $9.00 \%$ | 0.375 | 3.4 |
|  | 80 L |  | 1 | 16.8 |

$\mathrm{WACC}=\frac{\text { Sum Kx Wx }}{\text { Sum Wx }}=\frac{16.8}{1} \quad=16.8 \%$

## Working Notes :

$1 \mathrm{Ke}=\left(\frac{18}{72}+.05\right) \times 100=30 \%$
$2 \mathrm{KI}=\mathrm{I}(1-\mathrm{t})=15(0.60)=9 \%$
5. Four years ago, $Z$ Ltd. had purchased a machine of $₹ 4,80,000$ having estimated useful life of 8 years with zero salvage value. Depreciation is charged using SLM method over the useful life. The company want to replace this machine with a new machine. Details of new machine are as below :

- Cost of new machine is ₹ $12,00,000$. Vendor of this machine is agreed to take old machine at a value of ₹ $2,40,000$. Cost of dismantling and removal of old machine will be ₹ $40,000.80 \%$ of net purchase price will be paid on spot and remaining will be paid at the end of one year.
- Depreciation will be charged @ $20 \%$ p.a. under WDV method.
- Estimated useful life of new machine is four years and it has salvage value of ₹ $1,00,000$ at the end of year four.
- Incremental annual sales revenue is ₹ $12,25,000$.
- Contribution margin is $50 \%$.
- Incremental indirect cost (excluding depreciation) is ₹ $1,18,750$ per year.
- Additional working capital of $₹ 2,50,000$ is required at the beginning of year one and $₹ 3,00,000$ at the beginning of year three. Working capital at the end of year four will be nil.
- Tax rate is $30 \%$.
- Ignore tax on capital gain.

Z Ltd. will not make any additional investment, if it yields less than $12 \%$.
Advice, whether existing machine should be replaced or not.

| Year | 1 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PVIF $_{0.12, \mathbf{t}}$ | 0.893 | 0.797 | 0.712 | 0.636 | 0.567 |

(10 Marks)

Sol.

## Evaluation of Replacement Decision

Calculation of NPV


Calculation of Net Present Value

| Year | Incre. PBDT | Incre. Dep. | Incre. PBT | Tax | Incre. PAT | CFAT | $\begin{array}{r} \text { PVF @ } \\ 12 \% \end{array}$ | PV of CFAT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 493,750 | 180,000 | 313,750 | 94,125 | 219,625 | 399,625 | 0.893 | 356,865 |
| 2 | 493,750 | 132,000 | 361,750 | 108,525 | 253,225 | 385,225 | 0.797 | 307,024 |
| 3 | 493,750 | 93,600 | 400,150 | 120,045 | 280,105 | 373,705 | 0.712 | 266,078 |
| 4 | 493,750 | 62,880 | 430,870 | 129,261 | 301,609 | 364,489 | 0.636 | 231,815 |
| 4 | 100,000 |  |  |  |  | 100,000 | 0.636 | 63,600 |
| (Salvage value) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | PVIF | 1,225,382 |
|  |  |  |  |  |  |  | Less: |  |
|  |  |  |  |  |  |  | PVOF | 1,467,700 |
|  |  |  |  |  |  |  | NPV | $(242,318)$ |

Since it gives negative NPV of Rs. 2,42,318, the machine should not be replaced.
Note : As per information given in question, recovery of working capital is assumed to be zero.
6. (a) List out the conditions, framed by SEBI, which a company needs to fulfill in order to issue of bonus shares.
(4 Marks)
(b) "Permanent working capital and fluctuating (temporary) working capital, both are necessary to facilitate production and sales through the operating cycle." - Describe.
(4 Marks)
(c) Briefly explain concept of "Trading on Equity" in financial leverage analysis.
(2 Marks)

Discuss features of Secured Premium Notes.
(2 Marks)
Sol. Theory : Can be referred in ICAI study material.

