| QUESTION 1(a) (i) |  |
| :---: | :---: |
| Answer |  |
| Interest I $=10 \% \times 1,000$ |  |
|  | $=\mathrm{RM} 100$ |
| Value of bond |  |
| $\mathrm{Vb}=\mathrm{I}($ PVIFA $12 \%, 10)+\mathrm{M}($ PVIF $12 \%, 10)$ |  |
| $=$ RM $100 /(5.6502) /+1,000 /(0.3220) /$ |  |
|  | 565.02 / |

## QUESTION 1(a) (ii)

## Answer

Dividend D1 $=\mathrm{Do}(1+\mathrm{g}) /$

$$
=\mathrm{RM} 2 /(1 /+0.05 /)
$$

$$
=\mathrm{RM} 2.10 /
$$

Value of common shares

$$
\begin{aligned}
\text { Vcs } \quad & =\begin{array}{c}
\mathrm{D} 1 \\
\mathrm{Rcs}-\mathrm{g} / \\
\\
\end{array} \quad \begin{array}{r}
\mathrm{RM} 2.10 / \\
(0.12 /-0.05 /) \\
\\
\end{array} \quad \mathrm{RM} 30 /
\end{aligned}
$$

## QUESTION 1(b) (i)

Answer

| PRINCIPLE(B1) |  | $450,000.00$ | $/$ |
| :---: | :---: | :---: | :---: |
| RATE(R) |  | 0.12 |  |
| TIME (T) | $9 / 12$ | 0.75 | $/$ |
| COM. BALANCE(CB) | $(100-10) / 100$ | 0.90 |  |
| BASIC(B2) | $450,000 \div 0.9)$ | $500,000.00$ |  |
| INTEREST | $(500,000 X 0.12 X 0.75)$ | $45,000.00$ | $/$ |


| Credit Effective Cost $=$ interest | x | 1 |  |
| ---: | :---: | :---: | :---: |
| Principal |  | time |  |
| 45,000 | x | 1 |  |
| $(450,000)$ |  |  | 0.75 |
|  | $=13.33 \% / /$ |  |  |



Roses Company Ltd should choose Bank B / since Bank B provide a low credit effective cost ( $10.81 \%$ ) / as compared to Bank A (13.33\%). /

## QUESTION 2(a)

Answer
THREE (3) working capital principles.

1. Hedging /
-moderate principle /
-permanent assets (fixed and current assets) are financed with long-term financing /
-temporary current assets are financed with short-term financing./
2. Aggressive/
-risky principle /
-using short term debt to finance all current assets and some of fixed assets./
3. Conservative/
-very safe principle /
-all the fixed assets and most of the current assets are financed by long term debt or equity /

Total:
10 marks
(/ = 1 mark: total $=10$ marks)

## TOTAL:25 M

Total: 5 marks
(/ = 0.5 mark: total $=5$ marks)

| QUESTION 2(b) <br> Answer |  |  |  |  | Total: 10 marks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| The account receivables collection procedure if the customer exceeds beyond the credit period. |  |  |  |  |  |
| 1. distributing warning letter/ <br> - prepare and send it to the customer / |  |  |  |  |  |
|  |  |  |  |  |  |
| 2. making phone call / |  |  |  |  | (/ = 0.5 mark: |
| - contact the customer by phone / |  |  |  |  | total $=5$ marks) |
| 3. giving a final warning letter / |  |  |  |  |  |
| - prepare and send it to the customer / |  |  |  |  |  |
| 4. reporting to the debt collection agencies / |  |  |  |  |  |
| - contact legal collection agencies or / |  |  |  |  |  |
| - inform company's lawyer to take further actions / |  |  |  |  |  |
| - bring the case to court and declare bankruptcy /(any suitable answers are accepted) |  |  |  |  |  |
|  |  |  |  |  |  |
| QUESTION 2(c) |  |  |  |  |  |
| Answer |  |  |  |  | Total: 10 marks |
|  | FORMULA | CALCULATION | TOTAL |  |  |
| SALES ( S ) |  |  | 5,000,000 | 1 |  |
| ORDERING COST ( <br> O ) |  |  | 1,000 | / |  |
| CARRYING COST ( C ) |  | 10\% X PP | 1 | /// |  |
| PURCHASING PRICE (PP) |  |  | 10 | / | ( $/=0.5$ mark: |
| EOQ (Q) | 2 SO | 2X5000000X1000 | 10,000,000,000 |  | marks) |
|  | 2SO/C | 2X5000000X1000/1 | 10,000,000,000 |  |  |
|  | $\sqrt{ } 2 \mathrm{SO} / \mathrm{C}$ | $\sqrt{ } 2 \times 5000000 \times 1000 / 1$ | 100,000 unit | /// |  |
| AVERAGE INVENTORY ( AVG INV ) | $(\mathrm{Q} \div 2)+\mathrm{SS}$ | 100000/2 + 0 | 50,000 | / |  |
| TOTAL CARRYING COST ( TCC ) | $\begin{aligned} & ((\mathrm{Q} \div 2)+ \\ & \mathrm{SS}) \mathrm{X} \mathrm{C} \\ & \hline \end{aligned}$ | $(100000 / 2+0) \mathrm{X} 1$ | 50,000 | /// |  |
| NUMBER OF ANNUAL ORDER (NO) | $S \div \mathrm{Q}$ | 5000000/100000 | 50 | 1 |  |
| TOTAL ORDERING COST (TOC) | $\begin{aligned} & (\mathrm{S} \div \mathrm{Q}) \mathrm{X} \\ & \mathrm{O} \end{aligned}$ | $\begin{aligned} & (5000000 / 100000) \mathrm{X} \\ & 1000 \end{aligned}$ | 50,000 | //I |  |
| TOTAL <br> INVENTORY COST <br> ( TIC ) | $\begin{aligned} & \text { TIC }=\mathrm{TCC} \\ & +\mathrm{TOC} \\ & \hline \end{aligned}$ | $50000+50000$ | RM100,000 | //] |  |

## QUESTION 3 (a)

## Answer

Step 1: Identify potential capital investment /
Step 2: Forecast future net cash flow /
Step 3: Analyze potential investment /
i. Screen out undesirable investment using payback or ARR method
ii. Further analysis using NPV or IRR method.

Step 4: Choose among alternative investment when the resources are not sufficient to fund all profitable project /
Step 5: Perform post-audits after making capital investment. /

## QUESTION 3 (b)(i)

## Answer

Payback Period for machine A

$$
\begin{aligned}
\mathrm{PBP} & =165000 / 35000 / \\
& =4.71 \text { years } /
\end{aligned}
$$

Payback Period for machines B

$$
\begin{aligned}
\mathrm{PBP} & =4+(165000-149000) / 62000 / \\
& =4+0.258 \\
& =4.26 \text { years } /
\end{aligned}
$$

## QUESTION 3 (b)(ii)

## Answer

Machine A

| Year | Cah flow | PVIFA (14\%) | PV |
| :--- | :--- | :--- | :--- |
| $1-6$ | 35000 | $3.8887 /$ | $136104.50 /$ |
|  |  | TPV | 136104.50 |
|  |  | Investment | 165000.00 |
|  |  | NPV | $-28,895.50 /$ |

Machine B

| Year | Cah flow | PVIF (14\%) | PV |
| :--- | :--- | :--- | :--- |
| 1 | 25000 | 0.8772 | 21930.00 |
| 2 | 36000 | $0.7695 /$ | $27702.00 /$ |


| 3 | 38000 | $0.6750 /$ | $25650.00 /$ |
| :--- | :--- | :--- | :--- |
| 4 | 50000 | $0.5921 /$ | $29605.00 /$ |
| 5 | 62000 | $0.5194 /$ | $32202.00 /$ |
| 6 | 65000 | $0.4556 /$ | $29614.00 /$ |
|  |  | TPV | $166703.00 /$ |
|  |  | Investment | 165000.00 |
|  |  | NPV | $1703.00 /$ |

## QUESTION 3 (b)(iii)

## Answer

Machine A

$$
\begin{aligned}
\text { PI } & =\text { TPV } / \mathrm{T} . \text { Investment } \\
& =136104.50 / 165000 / \\
& =0.82 /
\end{aligned}
$$

Machine B

$$
\begin{aligned}
\mathrm{PI} & =\mathrm{TPV} / \mathrm{T} . \text { Investment } \\
& =166,703.00 / 165000 / \\
& =1.01 / \mathrm{l}
\end{aligned}
$$

## QUESTION 3 (c)

Answer
Payback Period for Machine A is 4.71 years compared to machine B is 4.26 years.
Total: 10 marks
Shorter period is better compared to the long period to payback. Choose machine B since payback period of Machine B is shorter. ///

Net Present Value for Machine A is (28895.50) compared to machine B is 1703.00. Positive NPV is better compared to negative NPV. Since the NPV of machine B is positive and higher than NPV of machine A. Machine B should be selected. ///

Profitability index for Machine A is 0.82 compared to machine B is 1.01 . Machine B

$$
\begin{gathered}
(/=1 \text { mark: } \\
\text { total }=10 \\
\text { marks })
\end{gathered}
$$ should be chosen at its profitability index is greater than 1.0 and is higher than profitability index of machine $\mathrm{A}(0.82)$. ///

Based on the above criteria, machine B is the best project to make an investment. /


## QUESTION 4 (c)

## Total:

Answer

## 10 marks

i) percentage change in Earnings Before Interest and Tax (EBIT)

DOL $=$ \%change in EBIT
\%change in Sales
i) \%change in EBIT $=$ \%change in Sales X DOL $/$

$$
=20 \% \times 2 / /
$$

$=40 \% ~ / /$
ii) percentage change in Earning Per Share (EPS)
(/ = 1 mark:
total $=10$ marks)

DFL $\quad=\%$ change in EPS
\%change in EBIT
ii) \%change in EPS = \%change in EBIT X DFL /

$$
=40 \% \times 1.17 \text { // }
$$

$$
=46.8 \% / /
$$

