

1. (i) Why is financial planning needed for good financial management? (02 marks)
(ii) Distinguish between short and long term finance using examples within the framework of internal and external sources of finance.
(iii) A proforma cost sheet of a company provides the following particulars:

Amount per unit (Rs)
Elements of cost :
Raw materials
Direct labour 30

Overheads 60

Total cost 170

Profit 30

Selling price

The following further particulars are available :

Raw materials in stock, on average, one month: materials in process (Completion stage, 50 percent) on average half a month: Finished goods in stock, on average, one month.

Credit allowed by suppliers is one month: Credit allowed to debtors is two months: Average time-lag in payment of wages is 1.5 weeks and one month in overhead expenses: one-fourth of the output is sold against cash: cash in hand and at bank is desired to be maintained at Rs. 365,000.

You are required to prepare a statement showing the working capital needed to finance a level of activity of 104,000 units of production. You may assume that production is carried on evenly throughout the year, and wages and overheads accrue similarly. For calculation purpose, 4 weeks may be taken as equivalent to a month.
(08 marks)
(iv) What is meant by capital gearing?

Discuss the advantages and disadvantages of high capital gearing using empirical examples in the following situations.
a. At a time of high profit
b. At a time of low profit.
(04 marks)
(v) Your marketing manager has made the following estimate of the demand at various potential prices for a product having a marginal cost of Rs. 100/-.

| Price <br> (RS) | 200 | 190 | 180 | 170 | 160 | 150 | 140 | 130 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Demand <br> (Unit) | 1,000 | 1,200 | 1,500 | 2,000 | 2,500 | 3,200 | 4,000 | 5,000 |

The fixed costs have been estimated as follows:

Units

| 1,400 | $40,000 /-$ |
| :--- | :--- |
| 2,500 | $80,000 /-$ |
| 4,200 | $120,000 /-$ |
| 5,600 | $160,000 /-$ |

Determine the price that will provide the maximum net contribution.
(vi) Kalappan Co. Ltd. is a highly automated company which Vucesç Bdue and Red ball point pens. Both are produced on the same machlindos and use exactly similar processes. Details of the costs and other related below.
6.

|  | Ball point pens |  |
| :--- | ---: | ---: |
|  | Blue | Red |
| Machine hours per unit | 2 | 2 |
| Annual units of output | 10,000 | 1,000 |
| No. of purchase orders for raw materials | 160 | 80 |
| No. of sets ups | 600 | 40 |

The costs of including overheads of the different activities identified in the process are given below.

Volume related activities
Purchasing related activities
Set up related activities

Rs. 110,000/-
Rs. 120,000/-
Rs. 210,000/-

Compute the product cost using Activity Based Costing system.
(vii) A company is considering the alternatives of either importing a component or producing the component. The estimated costs to the company for producing the component are as follows.

| Direct material | $3,000 /-$ |
| :--- | ---: |
| Direct Labour | $1,000 /-$ |
| Variable overhead | $500 /-$ |
| Fixed overhead | $2,000 /-$ |

The outside supplier has quoted a price of US \$ 50 at an exchange rate of 1 US \$ = 100 SLR.

The company is now operating at full capacity and the production of the component demands 20 extra machine hours and will reduce the production of an existing item, which yields a contribution of Rs. 100/-per machine hour.

Advise the management on the import or production of the component, with your reasons.
02. Given below are summarised accounts of Alok Ltd, for the years 1 and 2.

Balance sheet (Rs '000)

## Liabilities:

Share capital 250250

General reserves $100 \quad 172$
Debentures $180 \quad 150$
$\begin{array}{lll}\text { Term loan } & 30 & 30\end{array}$
Creditors $70 \quad 56$
$630 \quad 658$
Assets:
Fixed assets (at cost) 500
$\begin{array}{lll}\text { Less accumulated depreciation } & 115\end{array}$
Net fixed assets 420
Cash 55
85
Debtors 65 75
Inventories 90
113

| 630 |
| :--- |

Income statement (Rs '000)

| Year 1 | Year 2 |
| ---: | ---: |
| 350 | 450 |
| 160 | 183 |
| 190 | 267 |

$\begin{array}{lrr}\text { Less selling, general and administrative costs } & 50 & 60 \\ \text { Earnings before depreciation, interest and tax } & 140 & 207\end{array}$

| Less depreciation | 30 | 35 |
| :--- | ---: | ---: |
| Earnings before interest and tax | 110 | 172 |
| Less interest | 25 | 27 |
| Earnings before tax | 85 | 145 |
| Less tax | 15 | 48 |
| Earnings after tax | 70 | -197 |
| Less dividend | 25 | 25 |
| Retained earnings | 45 | 72 |

Compute the (i) liquidity, (ii) leverage, (iii) operational (iv) profitability ratios, and comment on the performance of the company.
03. The following cost accounting report is available to the managem for making a decision on what to produce during the coming year.

| Product | A | B | C | $<^{\text {D }}$ |  | Cspy, |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Selling price/ unit (Rs) | 1350 | 1770 | 1230 | 1290 | 1530 | 1350 |
| Cost/ unit (Rs) |  |  |  |  |  |  |
| Material | 300 | 450 | 360 | 540 | 810 | 720 |
| Labour | 360 | 450 | 300 | 240 | 180 | 150 |
| Variable overheads | 90 | 90 | 90 | 90 | 90 | 90 |
| Fixed overheads | 360 | 450 | 300 | 240 | 180 | 150 |
| Total cost | 1110 | 1440 | 1050 | 1110 | 1260 | - 1110 |
| Profit per unit | 240 | 330 | 180 | 180 | 270 | 240 |
| Ranking | 3 | 1 | 5 | 5 | 2 | 3 |
| Estimated maximum demand | 500 | 700 | 600 | 1000 | 400 | 600 |

Labour is all of one grade and paid Rs 30 per hour. The company can hire only 22,000 labour hours during the coming year. All other resources can be obtained in the desired quantities. Materials are valued at expected cost and none are held in stock at present. Fixed overheads are charged at $100 \%$ of labour cost under the absorption costing system of the company.
a. Criticize the costing report as a basis for product selection and suggest an output plan for the coming year. Indicate how confident you are that your suggestion is optimal.
(15 marks)
b. Suppose that the price of materials has increased dramatically during the past year and the company holds very large stocks purchased before the increase. Explain briefly how such materials should be valued for output decisions.
(05 marks)
(Total 20 marks)
04. a. Your organization has no system for authorizing and controlling capital expenditure. The Managing Director has asked you, as Cost Accountant, to review the situation.

## Required To:

Draft a memorandum to your Board of Directors detailing a scheme for capital expenditure authorization and control, briefly explaining each stage in your system.
b. The following information relates to two possible capital projects of which you have to select one to invest in. Both projects have an initial capital cost of Rs. 200,000 and only one can be undertaken.

|  | Net Income |  |
| :---: | :---: | :---: |
| Project | X | Y |
| Year 1 | 80,000 | 30,000 |
| 2 | 80,000 | 50,000 |
| 3 | 40,000 | 90,000 |
| 4 | 20,000 | 120,000 |
| (RS) | (RS) |  |
| ue at the end of Year 4 | 40,000 | 40,000 |

i. Profit is calculated after deducting straight line depreciation.
ii. The cost of capital is $16 \%$.

## Required:

## For both projects calculate the following :

i. The pay back period to one decimal place.
ii. The accounting rate of return using average investment.
iii. The net present value.
c. Advise the board which project in your opinion should be undertaken, giving reasons for your decision.
d. The board had looked at your proposal and you have been asked to clarify a number of issues :
i. What is meant by the term 'cost of capital' and why is it important in coming to an investment decision?
ii. State two ways in which risk can be taken into account when making a capital investment decision.

