

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF TEXTILE TECHNOLOGY
END OF SEMESTER EXAMINATIONS APRIL 2009
MANAGEMENT ACCOUNTING TXT 4122
TIME: 3 HOURS

INSTRUCTIONS

1. Answer **ALL** questions.
2. Show all workings.
3. Start each question on a new page.

1. (20)

a) Analyse the following costs between:

- | | |
|--------------------------------------|-----------------------------|
| i) Direct materials | ii) Direct labour |
| iii) Factory indirect expenses | iv) Administration expenses |
| v) Selling and distribution expenses | vi) Finance charges |

- a) Raw materials
- b) Factory storekeeper's wages
- c) Depreciation of delivery motor vehicles
- d) Wages of factory canteen staff
- e) Advertising
- f) Lubricants of factory machinery
- g) Postal charges of parcels sent to customers
- h) Carriage inwards on raw materials
- i) Debt collection costs
- j) Wages of crane drivers in the factory
- k) Interest on overdraft
- l) Royalty paid for each item manufactured
- m) Company secretary salary
- n) Discount allowed
- o) Wages of factory cleaners
- p) Chief accountant's salary
- q) Wages of painters engaged in production
- r) Hotels bills incurred by sales staff
- s) Audit fees
- t) Bank charges

(10)

(b) Costs have different behaviour patterns. Give an example of cost that suit the descriptions given below, and, for each description, draw a graph to show the behavior pattern of that cost.

- | | |
|--|-------|
| (i) period costs, | (1 ½) |
| (ii) local authority's water bills, | (1 ½) |
| (iii) hiring charges of a lathe | (1 ½) |
| (iv) bond paper in a photocopying company | (1 ½) |
| (v) cost of raw materials where quantity discounts are offered | (1 ½) |
| (iv) wages of quality control staff in a factory | (1 ½) |
| (v) factory insurance costs | (1) |

2. (15)

Ndlovu (Pvt) Limited manufactures and sells a single product. During the next year it plans to produce 20 000 units and sell them at \$10 000 each. The budgeted income statement is as follows:

	\$000	\$000
Sales		200 000
<u>Less</u> cost of sales:		
Direct materials	68 000	
Direct wages	52 000	
Fixed Production overheads	<u>24 000</u>	<u>144 000</u>
Gross Profit		56 000
<u>Less</u> fixed selling and admin. costs		<u>30 000</u>
Next profit before tax		<u>26 000</u>

Required:

- | | |
|--|-----|
| (a) Calculate the contribution per unit. | (2) |
| (b) Calculate the number of units to be produced and sold to 'break even' | (2) |
| (c) Calculate the expected profit if sales were to be doubled as a result of reducing the selling price by 15%. | (2) |
| (d) Ndlovu (Pvt) Limited's marginal tax rate is 40% what sales value would the company have to make in order to earn an after-tax profit of \$30m? (Use the budgeted figures). | (4) |
| (e) State 5 assumptions underlying the break even analysis. | (5) |

3.

(25)

A company has to choose between two projects both of which involve an investment of £20,000. The current cost of capital is 10%. The net cash flows of the projects are:

Year	Project A \$	Project B \$
1	1,000	14,000
2	2,000	4,000
3	2,000	4,000
4	7,000	2,000
5	20,000	8,000

Required

- a) For each Project calculate the following:
- i) Payback Period..... (3)
 - ii) Net Present value (NPV) (6)
 - iii) Profitability Index (P.I.) (3)
 - iv) Internal Rate of Return (IRR) (7)
- b) State 3 advantages and 3 disadvantages of the Payback method (6)

4.

- (a) State and explain 3 advantages and 2 disadvantages of activity based costing.(10)
- (b) Explain five differences between 'Financial Accounting' and Management Accounting.' (5)

5.

(25)

Match each item in Column A with its suitable description obtained from Column B. Write down **only** the numbers in column A and against them, the letter from Column B that represents your choice. (e.g. if your answer for 1.10 is (v) then you should write 1.10v).

Column A	Column B
1.1 Cost unit 1.2 Overhead allocation 1.3 Management Accounting 1.4 A relevant cost is 1.5 A sunk cost is 1.6 Profit/Volume ratio 1.7 Service Cost Centre 1.8 Margin of safety 1.9 Overhead Absorption 1.10 Labour rate variance 1.11 Cost centre 1.12 Marginal Costing 1.13 Fixed cost 1.14 Periodic Inventory System 1.15 Indirect material 1.16 Opportunity cost 1.17 Relevant Range 1.18 Cost Objective 1.19 First in, First out (FIFO) 1.20 Semi-variable costs 1.21 Break even volume 1.22 Budget 1.23 Just In Time 1.24 Flexible Budget 1.25 Standard Hour	a) A cost that has been incurred as a result of a past decision. b) A cost that does not change with changes in output. c) May be caused by using a different grade of labour d) Contain both elements of fixed and variable. e) A unit of product or service in relation to which costs are ascertained. f) A costing technique whereby fixed costs are not absorbed into product costs. g) The charging of overheads to cost centers without apportioning them. h) Is concerned with identifying, presenting and interpreting information used for decision-making, planning and controlling activities etc. i) The value of the best alternative foregone. j) Measures the relationship of contribution to sales. k) A band of activity in which a specific form of budgeted sales and cost relationship will be valid. l) A production or service location, function, activity or item of equipment whose costs may be attributed to cost units. m) Is the excess of budgeted sales over the break even sales. n) Aims at producing high quality items, exactly at the right time they are required. o) The quantity of work achievable at standard performance in an hour. p) Any activity for which a separate measurement of cost is desired. q) A system of stocktaking after a specified period of time r) A future cash flow arising as a direct consequence of the decision under review. s) A department that gives support to other departments. t) Is one that is designed to adjust for changes in volume. u) The number of units at which total revenue equals total costs. v) Values issues to production using the price of the oldest stock held in store w) The application of overheads to units of production. x) Is a quantitative expression of a plan of action prepared in advance of the period to which it relates. y) Includes such items like stationery, consumable materials, maintenance materials, lubricating oil, spare parts for machinery etc.