This is a Pilot Paper and is intended only to be an indicative guide for tutors and students of the style and type of questions that are likely to appear in future examinations. It does not seek to cover the full range of the syllabus learning outcomes for this subject.
Financial Accounting and Tax Principles will be a three hour paper with two compulsory sections ( 50 marks and 30 marks respectively) and one section with a choice of questions for 20 marks.
CONTENTS
Pilot Question Paper
Section A: Twenty one objective test questions
Section B: Six short answer questions
Section C: Two scenario questions
Indicative Maths Tables and Formulae

Pages 2-13

Pages 14-16

Pages 17-20

Pages 21-23


Pages 24-36

## SECTION A - 50 MARKS

## ANSWER ALL TWENTY-ONE SUB-QUESTIONS

## REQUIRED:

On the indicative ANSWER SHEET, either write your answer in the space provided where the sub-question requires a written response, or place a circle "O" around the letter that gives the correct answer to the sub-question where a list of distractors has been provided.

If you wish to change your mind about an answer to such a sub-question, block out your first answer completely and then circle another letter. You will not receive marks if more than one letter is circled.

Space has been provided on the four-page answer sheet for workings. If you require further space, please use the last page of your answer book and clearly indicate which question(s) these workings refer to.

You must detach the answer sheet from the question paper and attach it to the front cover of your answer book before you hand it to the invigilators at the end of the examination.

## Question One

1.1 Which ONE of the following transactions is most likely to affect the overall amount of working capital?

A Receipt of full amount of cash from a customer to settle their trade receivable account.

B Payment of a trade payable account in full.
C Sale of a non-current asset on credit at its net book value.
D Purchase of inventory on credit.

Financial Accounting and Tax Principles

INDICATIVE ANSWER SHEET FOR SECTION A

Write here your full examination number:

| Centre Code |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Hall Code |  |  |  |  |
| Desk Number |  |  |  |  |


| 1.1 | A | B | C | D |
| :---: | :---: | :---: | :---: | :---: |
| 1.2 | A | B | C | D |
| 1.3 | A | B | C | D |
| 1.4 | No more than 15 additional words: A direct tax is one that |  |  |  |
| 1.5 | The optimal amount to the nearest $\$ 100$ to be transferred is: |  |  |  |
| 1.6 | 1 |  |  |  |
| Maximum 5 | 2 |  |  |  |
| item | 3 |  |  |  |
|  | 4 |  |  |  |
| 1.7 | The annual rate of interest is: |  |  | \% |
| 1.8 | A | B | C | D |
| 1.9 | The average working capital cycle is: |  |  |  |
| 1.10 | A | B | C | D |
| 1.11 | A | B | C | D |
| 1.12 | A | B | C | D |
| 1.13 | Cash expected to be received is: \$ |  |  |  |
| 1.14 | A | B | C | D |
| 1.15 | Tax due is: \$ |  |  |  |
| 1.16 | A | B | C | D |

THIS ANSWER SHEET CONTINUES ON PAGE 4


You must detach this Answer sheet from the question paper and attach it to the inside front cover of your answer book before you hand it in to the invigilators at the end of the examination.

Space for workings for Section A

Space for workings for Section A
1.2 B entered into a three-year contract to build a leisure centre for an enterprise. The contract value was $\$ 6$ million. B recognises profit on the basis of certified work completed.

At the end of the first year, the following figures were extracted from B's accounting records:$\$ 000$
Certified value of work completed (progress payments billed) ..... 2,000
Cost of work certified as complete ..... 1,650
Cost of work-in-progress (not included in completed work) ..... 550
Estimated cost of remaining work required to complete the contract ..... 2,750
Progress payments received from enterprise ..... 1,600
Cash paid to suppliers for work on the contract ..... 1,300

What values should B record for this contract as "gross amounts due from customers" and "current liabilities - trade and other payables"?

|  | Gross amounts due from <br> customers <br> $\$ \$ 50,000$ | Current liabilities - trade and <br> other payables <br> $\$ 350,000$ |
| :---: | ---: | :---: |
| A | $\$ 950,000$ | $\$ 900,000$ |
| B | $\$ 1,250,000$ | $\$ 600,000$ |
| C | $\$ 2,550,000$ | $\$ 900,000$ |

(2 marks)
1.3 IAS 8 - Net Profit or Loss for the Period, Fundamental Errors and Changes in accounting policies specifies the definition and treatment of a number of different items.

Which of the following is NOT specified by IAS 8 ?
A The effect of a change in an accounting estimate.
B Prior period adjustments.
C Provisions.
D Extraordinary items.
1.4 In no more than 15 words, complete the following sentence:
"A direct tax is one that..."
(Write your answer in the space provided on the answer sheet)
(2 marks)
1.5 A company uses the Baumol cash management model. Cash disbursements are constant at $\$ 20,000$ each month. Money on deposit earns $5 \%$ a year, while money in the current account earns a zero return. Switching costs (that is, for each purchase or sale of securities) are $\$ 30$ for each transaction.

What is the optimal amount (to the nearest \$100) to be transferred in each transaction?
(Write your answer in the space provided on the answer sheet)
(2 marks)
1.6 List (using no more than five words per item) the four main sources of tax rules in a country.
(Write your answer in the space provided on the answer sheet)
(4 marks)
1.7 WM's major supplier, INT, supplies electrical tools and is one of the largest companies in the industry, with international operations. Deliveries from INT are currently made monthly, and are constant throughout the year. Delivery and invoicing both occur in the last week of each month.

Details of the credit terms offered by INT are as follows:

| Normal credit period | Cash discount | Average monthly <br> purchases |
| :---: | :---: | :---: |
| 40 days | $2 \%$ for settlement in 10 days | $\$ 100,000$ |

WM always takes advantage of the cash discount from INT.
Calculate the annual rate of interest (to two decimal places) implied in the cash discount offered by INT. Assume a 365-day year.
(Write your answer in the space provided on the answer sheet)
(3 marks)
1.8 A company has a current ratio of $2: 1$. Due to having significant surplus cash balances, it has decided to pay its trade payable accounts after 30 days in future, rather than after 50 days, as it has in the past.

What will be the effect of this change on the company's current ratio and its cash operating cycle?

Current ratio Cash operating cycle
A Increase Increase
B Increase Decrease
C Decrease Increase
D Decrease Decrease
(2 marks)
1.9 The following balances were extracted from the books of A :

|  | Year ended 31 <br> March 2003 |
| :--- | :---: |
| Revenue | $\$ 000$ |
| Cost of sales | 300 |
| Gross profit | $\underline{200}$ |
|  | $\underline{100}$ |
| Closing inventory | At 31 March 2003 |
| Trade receivables | $\$ 000$ |
| Trade payables | 15 |
|  | 36 |
|  | 28 |

Assume all revenue is credit sales and cost of sales equates to inventory purchases.
What is A's average working capital cycle for the year ended 31 March 2003?
(Write your answer in the space provided on the answer sheet)
(3 marks)
1.10 Double tax relief is used to

A ensure that you do not pay tax twice on any of your income.
B mitigate taxing overseas income twice.
C avoid taxing dividends received from subsidiaries in the same country twice.
D provide relief where a company pays tax at double the normal rate.
1.11 A withholding tax is:

A tax withheld from payment to the tax authorities.
B tax paid less an amount withheld from payment.
C tax deducted at source before payment of interest or dividends.
D tax paid on increases in value of investment holdings.
(2 marks)
1.12 Tax on an enterprise's trading profits could be referred to as:
(i) Income tax
(ii) Profits tax
(iii) Indirect tax
(iv) Direct tax
(v) Earnings tax

Which TWO of the above would most accurately describe tax on an enterprise's trading profits:

A (i) and (iii)
B (i) and (iv)
C (ii) and (iii)
D (iv) and (v)
(2 marks)
1.13 An enterprise commenced business on 1 April 2002. Revenue in April 2002 was $\$ 20,000$, but this is expected to increase at $2 \%$ a month. Credit sales amount to $60 \%$ of total sales. The credit period allowed is one month. Bad debts are expected to be $3 \%$ of credit sales, but other customers are expected to pay on time. Cash sales represent the other $40 \%$ of revenue.

How much cash is expected to be received in May 2002?
(Write your answer in the space provided on the answer sheet)
1.14 Which of the following types of taxes is regarded as an indirect tax?

A Taxes on income.
B Taxes on capital gains.
C Taxes on inherited wealth.
D Sales tax (Value added tax).
(2 marks)
1.15 E has an accounting profit before tax of $\$ 95,000$. The tax rate on trading profits applicable to E for the year is $25 \%$. The accounting profit included non-taxable income from government grants of $\$ 15,000$ and non-tax allowable expenditure of $\$ 10,000$ on entertaining expenses.

How much tax is $E$ due to pay for the year?
(Write your answer in the space provided on the answer sheet)
(2 marks)
1.16 Which TWO of the following are underlying assumptions in the International Accounting Standards Board's Framework for the preparation and presentation of financial statements?
(i) Accruals
(ii) Relevance
(iii) Comparability
(iv) Going concern
(v) Reliability

A (i) and (v)
B (ii) and (v)
C (iii) and (iv)
D (i) and (iv)
1.17 The International Accounting Standards Board's Framework for the preparation and presentation of financial statements defines elements of financial statements. In no more than 30 words define an asset.
(Write your answer in the space provided on the answer sheet)
$X$ acquired the business and assets from the owners of an unincorporated business: the purchase price was satisfied by the issue of 10,000 equity shares with a nominal market value of $\$ 10$ each and $\$ 20,000$ cash. The market value of $X$ shares at the date of acquisition was $\$ 20$ each.

The assets acquired were:

- Net tangible non-current assets with a book value of $\$ 20,000$ and current value of $\$ 25,000$.
- Patents for a specialised process valued by a specialist valuer at $\$ 15,000$.
- Brand name, valued by a specialist brand valuer on the basis of a multiple of earnings at $\$ 50,000$.
- Publishing rights of the first text from an author that the management of $X$ expects to become a best seller. The publishing rights were a gift from the author to the previous owners at no cost. The management of $X$ has estimated the future value of the potential best seller at $\$ 100,000$. However, there is no reliable evidence available to support the estimate of the management.
1.18 In no more than 30 words, explain the accounting treatment to be used for the publishing rights of the first text.
(Write your answer in the space provided on the answer sheet)
(2 marks)
1.19 Calculate the value of goodwill to be included in the accounts of $X$ for this purchase.
(4 marks)
1.20 SK sells bathroom fittings throughout the country in which it operates. In order to obtain the best price, it has decided to purchase all its annual demand of 10,000 shower units from a single supplier. RR has offered to provide the required number of showers each year under an exclusive long-term contract.

Demand for shower units is at a constant rate all year. The cost to SK of holding one shower unit in Inventory for one year is $\$ 4$ plus $3 \%$ of the purchase price.

RR is located only a few miles from the SK main showroom. It has offered to supply each shower unit at $\$ 400$ with a transport charge of $\$ 200$ per delivery. It has guaranteed such a regular and prompt delivery service that SK believes it will not be necessary to hold any safety Inventory (that is buffer Inventory) if it uses $R R$ as its supplier.
Using the economic order quantity model (EOQ model), calculate the optimal order size, assuming that RR is chosen as the sole supplier of shower units for SK.
(Write your answer in the space provided on the answer sheet)
1.21 Which of the following would be LEAST LIKELY to arise from the introduction of a Just-in-Time stock ordering system?

A Lower stockholding costs.
B Less risk of stock shortages.
C More frequent deliveries.
D Increased dependence on suppliers.

## SECTION B - 30 MARKS

ANSWER ALL SIX SHORT-ANSWER QUESTIONS

## Question Two

A new type of delivery vehicle, when purchased on 1 April 2000 for $\$ 20,000$, was expected to have a useful economic life of four years. It now appears that the original estimate of the useful economic life was too short, and the vehicle is now expected to have a useful economic life of six years, from the date of purchase. All delivery vehicles are depreciated using the straight-line method and are assumed to have zero residual value.

## Required:

As the trainee management accountant, draft a memo to the transport manager explaining whether it is possible to change the useful economic life of the new delivery vehicle. Using appropriate International Accounting Standards, explain how the accounting transactions relating to the delivery vehicle should be recorded in the income statement for the year ended 31 March 2003 and the balance sheet at that date.
(5 marks)

## Question Three

NDL drilled a new oil well, which started production on 1 March 2003. The licence granting permission to drill the new oil well included a clause that requires NDL to "return the land to the state it was in before drilling commenced".

NDL estimates that the oil well will have a 20-year production life. At the end of that time, the oil well will be de-commissioned and work carried out to reinstate the land. The cost of this de-commissioning work is estimated to be $\$ 20$ million.

## Required:

As the trainee management accountant, draft a memo to the production manager explaining how NDL must treat the de-commissioning costs in its financial statements for the year to 31 March 2003. Your memo should refer to appropriate International Accounting Standards.

## Question Four

HRD owns a number of small hotels. The room occupancy rate varies significantly from month to month. There are also high fixed costs. As a result, the cash generated each month has been very difficult to estimate.

Christmas is normally a busy period and large cash surpluses are expected in December. There is, however, a possibility that a rival group of hotels will offer large discounts in December and this could damage December trade for HRD to a significant extent.

January is a poor period for the industry and therefore all the company's hotels will close for the month, resulting in a negative cash flow. The Finance Director has identified the following possible outcomes and their associated probabilities:

|  | $\$ 000$ | Probability |
| :--- | :---: | :---: |
| Expected cash balance at 30 November 2003 | +175 | $1 \cdot 0$ |
| Net operating cash flow in December 2003 | +700 | $0 \cdot 7$ |
| Net operating cash flow in January 2004 | -300 | $0 \cdot 3$ |
|  | -900 | $1 \cdot 0$ |

Assume cash flows arise at month ends.
After January 2004, trade is expected to improve, but there is still a high degree of uncertainty in relation to the cash surpluses or deficits that will be generated in each month.

## Required:

Calculate the expected cash balance or overdraft of HRD at 31 January 2004.
Explain why your answer may not be useful for short-term cash planning and outline alternative approaches that could be used.
(5 marks)

## Question Five

On 1 January 2003, SPJ had an opening debit balance of $\$ 5,000$ on its tax account, which represented the balance on the account after settling its tax liability for the previous year. SPJ had a credit balance on its deferred tax account of $\$ 1.6$ million at the same date.
SPJ has been advised that it should expect to pay $\$ 1$ million tax on its trading profits for the year ended 31 December 2003 and increase its deferred tax account balance by \$150,000.
Required:
Prepare extracts from the income statement for the year ended 31 December 2003, balance sheet at that date and notes to the accounts showing the tax entries required.
(5 marks)

## Question Six

IAS 37 defines the meaning of a provision and sets out when a provision should be recognised.

Required:
Using the IAS 37 definition of a provision, explain how a provision meets the International Accounting Standards Board's Framework for the preparation and presentation of financial statements definition of a liability.
(5 marks)

## Question Seven

A lessee leases a non-current asset on a non-cancellable lease contract of five years, the details of which are:

- The asset has a useful economic life of five years.
- The rental is $\$ 21,000$ per annum payable at the end of each year.
- The lessee also has to pay all insurance and maintenance costs.
- The fair value of the asset was $\$ 88,300$.

The lessee uses the sum of digits method to calculate finance charges on the lease.

Required:
Prepare income statement and balance sheet extracts for years one and two of the lease.
(5 marks)
(Section B = 30 marks)

## Question Eight

AZ is a quoted manufacturing enterprise. Its finished products are stored in a nearby warehouse until ordered by customers. $A Z$ has been re-organising the business to improve performance.

The trial balance for AZ at 31 March 2003 was as follows:

|  | \$000 | \$000 |
| :---: | :---: | :---: |
| 7\% Loan Notes (redeemable 2007) |  | 18,250 |
| Accumulated profits at 31 March 2002 |  | 14,677 |
| Administrative expenses | 16,020 |  |
| Bank \& Cash | 26,250 |  |
| Cost of goods manufactured in the year to 31 March 2003 (excluding depreciation) | 94,000 |  |
| Distribution costs | 9,060 |  |
| Dividends paid | 1,000 |  |
| Dividends received |  | 1,200 |
| Equity shares \$1 each, fully paid |  | 20,000 |
| Interest paid | 639 |  |
| Inventory at 31 March 2002 | 4,852 |  |
| Plant \& Equipment | 30,315 |  |
| Provision for Depreciation at 31 March 2002: |  |  |
| Plant \& Equipment |  | 6,060 |
| Vehicles |  | 1,670 |
| Provision for doubtful trade receivables |  | 600 |
| Restructuring costs | 121 |  |
| Sales revenue |  | 124,900 |
| Share issue expenses | 70 |  |
| Share premium |  | 500 |
| Trade payables |  | 8,120 |
| Trade receivables | 9,930 |  |
| Vehicles | 3,720 |  |
|  | 195,977 | 195,977 |

## Additional information provided:

(i) Non-current assets are being depreciated as follows:

Plant \& Equipment $\quad 20 \%$ per annum straight line
Vehicles
25\% per annum reducing balance
Depreciation of plant and equipment is considered to be part of cost of sales, while depreciation of vehicles should be included under distribution costs.
(ii) Tax due for the year to 31 March 2003 is estimated at \$15,000.
(iii) The closing inventory at 31 March 2003 was $\$ 5,180,000$.
(iv) A dividend of 5 cents per ordinary share was paid in February 2003.
(v) The 7\% loan notes are 10-year loans due for repayment by 31 March 2007. AZ incurred no other interest charges in the year to 31 March 2003.
(vi) The restructuring costs in the trial balance represent the cost of the final phase of a major fundamental restructuring of the enterprise to improve competitiveness and future profitability.
(vii) At 31 March 2003, AZ was engaged in defending a legal action against the enterprise. Legal advisers have indicated that it is reasonably certain that the outcome of the case will be against the enterprise. The amount of compensation is currently estimated at $\$ 25,000$ and has not been included in the trial balance.
(viii) On 1 October 2002, AZ issued 1,000,000 equity shares at $\$ 1.50$ each. All money had been received and correctly accounted for by the year end.

Required:
Prepare AZ's income statement for the year to 31 March 2003, a balance sheet at that date, and a statement of changes in equity for the year. These should be in a form suitable for presentation to the shareholders, in accordance with the requirements of International Accounting Standards.

Notes to the financial statements are NOT required, but all workings must be clearly shown. DO NOT prepare a statement of accounting policies or a statement of total recognised gains and losses.
(20 marks)

## Question Nine

The following information has been extracted from the draft financial statements of TEX, a manufacturing enterprise:

TEX - Income statement for the year ended 30 September 2003

|  | $\$ 000$ |
| :--- | ---: |
| Revenue | 15,000 |
| Cost of sales | $(9,000)$ |
| Gross profit | 6,000 |
| Other operating expenses | $(2,300)$ |
|  | 3,700 |
| Finance cost | $(124)$ |
| Profit before tax | 3,576 |
| Income tax expense | $(1,040)$ |
| Dividends | $\underline{(1,100)}$ |
|  | $\underline{1,436}$ |

TEX - Balance sheets at 30 September

|  | 2003 |  | 2002 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | \$000 | \$000 | \$000 | \$000 |
| Assets |  |  |  |  |
| Non-current assets |  | 18,160 |  | 14,500 |
| Current assets: |  |  |  |  |
| Inventories | 1,600 |  | 1,100 |  |
| Trade receivables | 1,500 |  | 800 |  |
| Bank | 150 |  | 1,200 |  |
|  |  | 3,250 |  | 3,100 |
| Total assets |  | 21,410 |  | 17,600 |
| Equity and liabilities |  |  |  |  |
| Capital and reserves: |  |  |  |  |
| Issued capital |  | 10,834 |  | 7,815 |
| Accumulated profits |  | 5,836 |  | 4,400 |
|  |  | 16,670 |  | 12,215 |
| Non-current liabilities: |  |  |  |  |
| Interest-bearing borrowings | 1,700 |  | 2,900 |  |
| Deferred tax | 600 |  | 400 |  |
|  |  | 2,300 |  | 3,300 |
| Current liabilities: |  |  |  |  |
| Trade payables | 700 |  | 800 |  |
| Proposed dividend | 700 |  | 600 |  |
| Tax | 1,040 |  | 685 |  |
|  |  | 2,440 |  | 2,085 |
|  |  | 21,410 |  | 17,600 |

Non-current assets

|  | Property <br> $\$ 000$ | Plant <br> $\$ 000$ | Total <br> $\$ 000$ |
| :--- | :---: | ---: | ---: |
| At 30 September 2002 |  |  |  |
| Cost | 8,400 | 10,800 | 19,200 |
| Depreciation | $\underline{1,300}$ | $\underline{3,400}$ | $\underline{4,700}$ |
| Net book value | $\underline{7,400}$ | $\underline{14,500}$ |  |
|  |  |  |  |
| At 30 September 2003 | 11,200 | 13,400 | 24,600 |
| Cost | $\underline{1,540}$ | $\underline{4,900}$ | $\underline{6,440}$ |
| Depreciation | $\underline{9,660}$ | $\underline{8,500}$ | $\underline{18,160}$ |

(i) Plant disposed of during the year had an original cost of \$2,600,000 and accumulated depreciation of $\$ 900,000$; cash received on disposal was $\$ 730,000$.
(ii) All additions to non-current assets were purchased for cash.
(iii) Dividends were declared before the balance sheet dates.

Required:
Prepare TEX's cash flow statement and associated notes for the year ended 30 September 2003, in accordance with IAS 7 - Cash flow statements.
(20 marks)
(Section C = 20 marks)

## APPLICABLE MATHS TABLES AND FORMULAE

## Present value table

Present value of $£ 1$, that is $(1+r)^{-n}$ where $r=$ interest rate; $n=$ number of periods until payment or receipt.

| Periods | Interest rates $(r)$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $(n)$ | $1 \%$ | $2 \%$ | $3 \%$ | $4 \%$ | $5 \%$ | $6 \%$ | $7 \%$ | $8 \%$ | $9 \%$ | $10 \%$ |
| 1 | 0.990 | 0.980 | 0.971 | 0.962 | 0.952 | 0.943 | 0.935 | 0.926 | 0.917 | 0.909 |
| 2 | 0.980 | 0.961 | 0.943 | 0.925 | 0.907 | 0.890 | 0.873 | 0.857 | 0.842 | 0.826 |
| 3 | 0.971 | 0.942 | 0.915 | 0.889 | 0.864 | 0.840 | 0.816 | 0.794 | 0.772 | 0.751 |
| 4 | 0.961 | 0.924 | 0.888 | 0.855 | 0.823 | 0.792 | 0.763 | 0.735 | 0.708 | 0.683 |
| 5 | 0.951 | 0.906 | 0.863 | 0.822 | 0.784 | 0.747 | 0.713 | 0.681 | 0.650 | 0.621 |
| 6 | 0.942 | 0.888 | 0.837 | 0.790 | 0.746 | 0705 | 0.666 | 0.630 | 0.596 | 0.564 |
| 7 | 0.933 | 0.871 | 0.813 | 0.760 | 0.711 | 0.665 | 0.623 | 0.583 | 0.547 | 0.513 |
| 8 | 0.923 | 0.853 | 0.789 | 0.731 | 0.677 | 0.627 | 0.582 | 0.540 | 0.502 | 0.467 |
| 9 | 0.914 | 0.837 | 0.766 | 0.703 | 0.645 | 0.592 | 0.544 | 0.500 | 0.460 | 0.424 |
| 10 | 0.905 | 0.820 | 0.744 | 0.676 | 0.614 | 0.558 | 0.508 | 0.463 | 0.422 | 0.386 |
| 11 | 0.896 | 0.804 | 0.722 | 0.650 | 0.585 | 0.527 | 0.475 | 0.429 | 0.388 | 0.350 |
| 12 | 0.887 | 0.788 | 0.701 | 0.625 | 0.557 | 0.497 | 0.444 | 0.397 | 0.356 | 0.319 |
| 13 | 0.879 | 0.773 | 0.681 | 0.601 | 0.530 | 0.469 | 0.415 | 0.368 | 0.326 | 0.290 |
| 14 | 0.870 | 0.758 | 0.661 | 0.577 | 0.505 | 0.442 | 0.388 | 0.340 | 0.299 | 0.263 |
| 15 | 0.861 | 0.743 | 0.642 | 0.555 | 0.481 | 0.417 | 0.362 | 0.315 | 0.275 | 0.239 |
| 16 | 0.853 | 0.728 | 0.623 | 0.534 | 0.458 | 0.394 | 0.339 | 0.292 | 0.252 | 0.218 |
| 17 | 0.844 | 0.714 | 0.605 | 0.513 | 0.436 | 0.371 | 0.317 | 0.270 | 0.231 | 0.198 |
| 18 | 0.836 | 0.700 | 0.587 | 0.494 | 0.416 | 0.350 | 0.296 | 0.250 | 0.212 | 0.180 |
| 19 | 0.828 | 0.686 | 0.570 | 0.475 | 0.396 | 0.331 | 0.277 | 0.232 | 0.194 | 0.164 |
| 20 | 0.820 | 0.673 | 0.554 | 0.456 | 0.377 | 0.312 | 0.258 | 0.215 | 0.178 | 0.149 |


| Periods ( $n$ ) | Interest rates (r) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 11\% | 12\% | 13\% | 14\% | 15\% | 16\% | 17\% | 18\% | 19\% | 20\% |
| 1 | 0.901 | 0.893 | 0.885 | 0.877 | 0.870 | 0.862 | 0.855 | 0.847 | 0.840 | 0.833 |
| 2 | 0.812 | 0.797 | 0.783 | 0.769 | 0.756 | 0.743 | 0.731 | 0.718 | 0.706 | 0.694 |
| 3 | 0.731 | 0.712 | 0.693 | 0.675 | 0.658 | 0.641 | 0.624 | 0.609 | 0.593 | 0.579 |
| 4 | 0.659 | 0.636 | 0.613 | 0.592 | 0.572 | 0.552 | 0.534 | 0.516 | 0.499 | 0.482 |
| 5 | 0.593 | 0.567 | 0.543 | 0.519 | 0.497 | 0.476 | 0.456 | 0.437 | 0.419 | 0.402 |
| 6 | 0.535 | 0.507 | 0.480 | 0.456 | 0.432 | 0.410 | 0.390 | 0.370 | 0.352 | 0.335 |
| 7 | 0.482 | 0.452 | 0.425 | 0.400 | 0.376 | 0.354 | 0.333 | 0.314 | 0.296 | 0.279 |
| 8 | 0.434 | 0.404 | 0.376 | 0.351 | 0.327 | 0.305 | 0.285 | 0.266 | 0.249 | 0.233 |
| 9 | 0.391 | 0.361 | 0.333 | 0.308 | 0.284 | 0.263 | 0.243 | 0.225 | 0.209 | 0.194 |
| 10 | 0.352 | 0.322 | 0.295 | 0.270 | 0.247 | 0.227 | 0.208 | 0.191 | 0.176 | 0.162 |
| 11 | 0.317 | 0.287 | 0.261 | 0.237 | 0.215 | 0.195 | 0.178 | 0.162 | 0.148 | 0.135 |
| 12 | 0.286 | 0.257 | 0.231 | 0.208 | 0.187 | 0.168 | 0.152 | 0.137 | 0.124 | 0.112 |
| 13 | 0.258 | 0.229 | 0.204 | 0.182 | 0.163 | 0.145 | 0.130 | 0.116 | 0.104 | 0.093 |
| 14 | 0.232 | 0.205 | 0.181 | 0.160 | 0.141 | 0.125 | 0.111 | 0.099 | 0.088 | 0.078 |
| 15 | 0.209 | 0.183 | 0.160 | 0.140 | 0.123 | 0.108 | 0.095 | 0.084 | 0.079 | 0.065 |
| 16 | 0.188 | 0.163 | 0.141 | 0.123 | 0.107 | 0.093 | 0.081 | 0.071 | 0.062 | 0.054 |
| 17 | 0.170 | 0.146 | 0.125 | 0.108 | 0.093 | 0.080 | 0.069 | 0.060 | 0.052 | 0.045 |
| 18 | 0.153 | 0.130 | 0.111 | 0.095 | 0.081 | 0.069 | 0.059 | 0.051 | 0.044 | 0.038 |
| 19 | 0.138 | 0.116 | 0.098 | 0.083 | 0.070 | 0.060 | 0.051 | 0.043 | 0.037 | 0.031 |
| 20 | 0.124 | 0.104 | 0.087 | 0.073 | 0.061 | 0.051 | 0.043 | 0.037 | 0.031 | 0.026 |

## Cumulative present value of $£ 1$ per annum,

Receivable or Payable at the end of each year for $n$ years $\frac{1-(1+r)^{-n}}{r}$

| Periods | Interest rates $(r)$ |  |  |  |  |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :---: |
|  | $1 \%$ | $2 \%$ | $3 \%$ | $4 \%$ | $5 \%$ | $6 \%$ | $7 \%$ | $8 \%$ | $9 \%$ | $10 \%$ |  |
| 1 | 0.990 | 0.980 | 0.971 | 0.962 | 0.952 | 0.943 | 0.935 | 0.926 | 0.917 | 0.909 |  |
| 2 | 1.970 | 1.942 | 1.913 | 1.886 | 1.859 | 1.833 | 1.808 | 1.783 | 1.759 | 1.736 |  |
| 3 | 2.941 | 2.884 | 2.829 | 2.775 | 2.723 | 2.673 | 2.624 | 2.577 | 2.531 | 2.487 |  |
| 4 | 3.902 | 3.808 | 3.717 | 3.630 | 3.546 | 3.465 | 3.387 | 3.312 | 3.240 | 3.170 |  |
| 5 | 4.853 | 4.713 | 4.580 | 4.452 | 4.329 | 4.212 | 4.100 | 3.993 | 3.890 | 3.791 |  |
| 6 | 5.795 | 5.601 | 5.417 | 5.242 | 5.076 | 4.917 | 4.767 | 4.623 | 4.486 | 4.355 |  |
| 7 | 6.728 | 6.472 | 6.230 | 6.002 | 5.786 | 5.582 | 5.389 | 5.206 | 5.033 | 4.868 |  |
| 8 | 7.652 | 7.325 | 7.020 | 6.733 | 6.463 | 6.210 | 5.971 | 5.747 | 5.535 | 5.335 |  |
| 9 | 8.566 | 8.162 | 7.786 | 7.435 | 7.108 | 6.802 | 6.515 | 6.247 | 5.995 | 5.759 |  |
| 10 | 9.471 | 8.983 | 8.530 | 8.111 | 7.722 | 7.360 | 7.024 | 6.710 | 6.418 | 6.145 |  |
| 11 | 10.368 | 9.787 | 9.253 | 8.760 | 8.306 | 7.887 | 7.499 | 7.139 | 6.805 | 6.495 |  |
| 12 | 11.255 | 10.575 | 9.954 | 9.385 | 8.863 | 8.384 | 7.943 | 7.536 | 7.161 | 6.814 |  |
| 13 | 12.134 | 11.348 | 10.635 | 9.986 | 9.394 | 8.853 | 8.358 | 7.904 | 7.487 | 7.103 |  |
| 14 | 13.004 | 12.106 | 11.296 | 10.563 | 9.899 | 9.295 | 8.745 | 8.244 | 7.786 | 7.367 |  |
| 15 | 13.865 | 12.849 | 11.938 | 11.118 | 10.380 | 9.712 | 9.108 | 8.559 | 8.061 | 7.606 |  |
| 16 | 14.718 | 13.578 | 12.561 | 11.652 | 10.838 | 10.106 | 9.447 | 8.851 | 8.313 | 7.824 |  |
| 17 | 15.562 | 14.292 | 13.166 | 12.166 | 11.274 | 10.477 | 9.763 | 9.122 | 8.544 | 8.022 |  |
| 18 | 16.398 | 14.992 | 13.754 | 12.659 | 11.690 | 10.828 | 10.059 | 9.372 | 8.756 | 8.201 |  |
| 19 | 17.226 | 15.679 | 14.324 | 13.134 | 12.085 | 11.158 | 10.336 | 9.604 | 8.950 | 8.365 |  |
| 20 | 18.046 | 16.351 | 14.878 | 13.590 | 12.462 | 11.470 | 10.594 | 9.818 | 9.129 | 8.514 |  |


| Periods | Interest rates $(r)$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $(n)$ | $11 \%$ | $12 \%$ | $13 \%$ | $14 \%$ | $15 \%$ | $16 \%$ | $17 \%$ | $18 \%$ | $19 \%$ | $20 \%$ |
| 1 | 0.901 | 0.893 | 0.885 | 0.877 | 0.870 | 0.862 | 0.855 | 0.847 | 0.840 | 0.833 |
| 2 | 1.713 | 1.690 | 1.668 | 1.647 | 1.626 | 1.605 | 1.585 | 1.566 | 1.547 | 1.528 |
| 3 | 2.444 | 2.402 | 2.361 | 2.322 | 2.283 | 2.246 | 2.210 | 2.174 | 2.140 | 2.106 |
| 4 | 3.102 | 3.037 | 2.974 | 2.914 | 2.855 | 2.798 | 2.743 | 2.690 | 2.639 | 2.589 |
| 5 | 3.696 | 3.605 | 3.517 | 3.433 | 3.352 | 3.274 | 3.199 | 3.127 | 3.058 | 2.991 |
| 6 | 4.231 | 4.111 | 3.998 | 3.889 | 3.784 | 3.685 | 3.589 | 3.498 | 3.410 | 3.326 |
| 7 | 4.712 | 4.564 | 4.423 | 4.288 | 4.160 | 4.039 | 3.922 | 3.812 | 3.706 | 3.605 |
| 8 | 5.146 | 4.968 | 4.799 | 4.639 | 4.487 | 4.344 | 4.207 | 4.078 | 3.954 | 3.837 |
| 9 | 5.537 | 5.328 | 5.132 | 4.946 | 4.772 | 4.607 | 4.451 | 4.303 | 4.163 | 4.031 |
| 10 | 5.889 | 5.650 | 5.426 | 5.216 | 5.019 | 4.833 | 4.659 | 4.494 | 4.339 | 4.192 |
| 11 | 6.207 | 5.938 | 5.687 | 5.453 | 5.234 | 5.029 | 4.836 | 4.656 | 4.486 | 4.327 |
| 12 | 6.492 | 6.194 | 5.918 | 5.660 | 5.421 | 5.197 | 4.988 | 7.793 | 4.611 | 4.439 |
| 13 | 6.750 | 6.424 | 6.122 | 5.842 | 5.583 | 5.342 | 5.118 | 4.910 | 4.715 | 4.533 |
| 14 | 6.982 | 6.628 | 6.302 | 6.002 | 5.724 | 5.468 | 5.229 | 5.008 | 4.802 | 4.611 |
| 15 | 7.191 | 6.811 | 6.462 | 6.142 | 5.847 | 5.575 | 5.324 | 5.092 | 4.876 | 4.675 |
| 16 | 7.379 | 6.974 | 6.604 | 6.265 | 5.954 | 5.668 | 5.405 | 5.162 | 4.938 | 4.730 |
| 17 | 7.549 | 7.120 | 6.729 | 6.373 | 6.047 | 5.749 | 5.475 | 5.222 | 4.990 | 4.775 |
| 18 | 7.702 | 7.250 | 6.840 | 6.467 | 6.128 | 5.818 | 5.534 | 5.273 | 5.033 | 4.812 |
| 19 | 7.839 | 7.366 | 6.938 | 6.550 | 6.198 | 5.877 | 5.584 | 5.316 | 5.070 | 4.843 |
| 20 | 7.963 | 7.469 | 7.025 | 6.623 | 6.259 | 5.929 | 5.628 | 5.353 | 5.101 | 4.870 |

## FORMULAE

## Valuation models

(i) Future value of $S$, of a sum $X$, invested for $n$ periods, compounded at $r \%$ interest: $\quad S=X[1+r]^{n}$
(ii) Present value of $£ 1$ payable or receivable in $n$ years, discounted at $r \%$ per annum:

$$
P V=\frac{1}{[1+r]^{n}}
$$

(iii) Present value of an annuity of $£ 1$ per annum, receivable or payable for $n$ years, commencing in one year, discounted at $r \%$ per annum:

$$
P V=\frac{1}{r}\left[1-\frac{1}{[1+r]^{n}}\right]
$$

(iv) Present value of $£ 1$ per annum, payable or receivable in perpetuity, commencing in one year, discounted at $r \%$ per annum:

$$
P V=\frac{1}{r}
$$

(v) Present value of $£ 1$ per annum, receivable or payable, commencing in one year, growing in perpetuity at a constant rate of $g \%$ per annum, discounted at $r \%$ per annum:

$$
P V=\frac{1}{r-g}
$$

## Inventory management

(i) Economic Order Quantity

$$
\mathrm{EOQ}=\sqrt{\frac{2 \mathrm{C}_{0} D}{\mathrm{C}_{\mathrm{h}}}}
$$

where: $\mathrm{C}_{0} \quad=\quad$ cost of placing an order
$\mathrm{C}_{\mathrm{h}} \quad=\quad$ cost of holding one unit in Inventory for one year
D = annual demand

## Cash management

(i) Optimal sale of securities, Baumol model:

$$
\text { Optimal sale }=\sqrt{\frac{2 \times \text { Annual cash disbursements } \times \text { Cost per sale of securities }}{\text { interest rate }}}
$$

(ii) Spread between upper and lower cash balance limits, Miller-Orr model:


## SOLUTIONS TO PILOT PAPER

## SECTION A

## Answer to Question One

### 1.1 The answer is C

## 1.2

Gross amounts due from customers are calculated as: ..... \$
Certified value of work completed ..... 2,000
Less cash received from enterprise ..... 1,600
400
Plus work in progress ..... 550950
Current liabilities - trade and other payables are calculated as:Cost of work certified as complete1,650
Cost of work in progress (not included in completed work) ..... 5502,200
Less cash paid to creditors for work on the contract ..... 1,300
900
The answer is B

### 1.3 The answer is C

1.4 A direct tax is one that is levied directly on the person who is intended to pay the tax.
1.5
$\sqrt{[(2 \times 30 \times 240,000) / 0 \cdot 05]}=\$ 16,970$ that is approximately $\mathbf{\$ 1 7 , 0 0 0}$
1.6

1 Domestic legislation and court rulings
2 Practice of tax authority
3 Supranational bodies
4 International treaties
$1.7(100 / 98)^{365 / 30}-1=\mathbf{2 7} \cdot \mathbf{8 6 \%}$

### 1.8 The answer is $A$

## 1.9

Inventory turnover (15/200) x $365=27.4$ days
Receivables $(36 / 300) \times 365=43.8$ days
Payables $(28 / 200) \times 365=51.1$ days
Working capital cycle is therefore $=(27.4+43.8-51 \cdot 1)=\mathbf{2 0 . 1}$ days

### 1.10 The answer is B

### 1.11 The answer is C

### 1.12 The answer is D

$1.13(20,000 \times 1.02 \times 40 \%)+(20,000 \times 60 \% \times 0.97)=\$ 19,800$

### 1.14 The answer is D

| 1.15 Accounting profit | $\$ 95,000$ |
| :--- | :--- |
| Less non-taxable income | $\underline{\$ 15,000}$ |
| Add non-tax allowable expenses | $\underline{\$ 10,000}$ |
| Taxable profit | $\underline{\$ 90,000}$ |
| Tax at $25 \%$ | $\$ 22,500$ |

### 1.16 The answer is $D$

1.17 "an asset is a resource controlled by an enterprise as a result of past events and from which future economic benefits are expected to flow to the enterprise"
1.18 The publishing rights had no cost as they were a gift, therefore they cannot be recognised. Expected future value cannot be recognised as the event has not yet occurred.
1.19

|  |  | $\$$ |
| :--- | ---: | ---: |
| Tangible non-current assets |  | 25,000 |
| Patents |  | 15,000 |
| Brand name |  | $\underline{50,000}$ |
|  | $\$$ | 90,000 |
| Purchase consideration: | 20,000 |  |
| Cash | $\underline{200,000}$ |  |
| Shares |  | $\underline{220,000}$ |
| Goodwill |  | $\underline{130,000}$ |

1.20

Holding cost $=\$ 4+(3 \% \times \$ 400)=\$ 16$
$\mathrm{EOQ} \quad=\sqrt{\left(2 C_{0} D / C_{h}\right)}$
$=\sqrt{[(2 \times 10,000 \times \$ 200) / \$ 16]}$
Optimal order = $\mathbf{5 0 0}$ units

### 1.21 The answer is B

## Answer to Question Two

## Memo

To: Transport Manager
From: Trainee Management Accountant
Date: January 2004
International Accounting Standards (IAS) require the economic life of the vehicle to be changed.

IAS 16 requires the useful economic lives of non-current assets to be regularly reviewed and adjusted if they are found to be incorrect. IAS 16 also requires realistic economic lives to be used for non-current assets. A review of the delivery vehicle indicates that its useful economic life must be adjusted to a more realistic total of six years from date of purchase.

When economic lives are adjusted, IAS 16 requires the net book value to be recovered over the remaining useful economic life of the asset.

The delivery vehicle will have been depreciated for two years, 2000/2001 and 2001/2002.

|  | $\$ 000$ |
| :--- | :---: |
| Cost | 20 |
| Depreciation $2 / 4$ | $\underline{0}$ |
| Net book value at 31 March 2002 | $\underline{10}$ |

The useful economic life is adjusted to six years, two years having elapsed. The remaining useful life is now four years. The net book value, at 31 March 2002, of $\$ 10,000$ will be depreciated over the remaining four years at $\$ 2,500$ a year. The effect in the Income Statement for the year to 31 March 2003 will be to charge $\$ 2,500$ depreciation.

The balance sheet will show cost $\$ 20,000$, less accumulated depreciation of $\$ 10,000$ plus $\$ 2,500$, total $\$ 12,500$. The net book value at 31 March is $\$ 7,500$.

## Answer to Question Three

## Memo

To: Production Manager
From: Trainee Management Accountant
Date: January 2004
International Accounting Standard (IAS) 37 requires that any future obligations arising out of past events should be recognised immediately. The drilling licence includes a clause that requires the land to be returned to the state it was in before drilling commenced. The past event occurs as soon as the licence is granted and the de-commissioning costs are incurred as soon as the oil well has been drilled on the site.

The full obligation must be recognised in the accounts ending 31March 2003. The full cost of the de-commissioning has been estimated ( $\$ 20$ million); this is then discounted to present value and recorded as a provision in the balance sheet at 31 March 2003

Where the expenditure gives access to future economic benefits such as access to oil reserves for the next 20 years, the de-commissioning costs are treated as capital expenditure and added on to the cost of the non-current asset. The new total cost of the oil well would then need to be reviewed to ensure that its book value was not greater than its recoverable amount.

The cost of the oil well (including the provision) should be depreciated each year and charged to the income statement. The provision will remain in the balance sheet until the oil well is de-commissioned in 20 years' time.

## Answer to Question Four

|  | $\$ 000$ | $\$ 000$ |
| :--- | :--- | :--- |
| Opening balance (1 December 2003) |  | 175 |
| December |  |  |
| $+700 \times 0.7$ |  |  |
| $-300 \times 0.3$ |  |  |
|  | -990 |  |
|  | - | 400 |
| January |  | $\underline{-900}$ |
| Closing balance (31 January 2004) |  | $\underline{-325}$ |

The expected balance at 31 January is an overdraft of $\$ 325,000$.
The expected balance is based on probabilities and will not occur. It therefore provides a poor basis for short-term cash planning. Based on the probabilities provided, there will either be a cash inflow of $\$ 700,000$ in December or a cash outflow of $\$ 300,000$.

The mean expected value would only be relevant if the event could be repeated a significant number of times. The alternative approaches to planning should be to plan for each of the two possible outcomes, $+\$ 700,000$ or $-\$ 300,000$.

## Answer to Question Five

## Notes to the accounts

Note 1: Tax expense

|  | $\$$ |
| :--- | ---: |
| Balance brought forward 1 January 2003 | $(5,000)$ |
| Tax for current year | $1,000,000$ |
| Deferred tax increase | 150,000 |
| Income statement | $\underline{1,145,000}$ |

Note 2: Deferred tax
Deferred tax - balance at 1 January 2003 1,600,000
Increase in year
Balance at 31 December 2003

## Income Statement (extract) for the year ended 31 December 2003

Tax expense (note 1)
\$1,145,000

## Balance Sheet at 31 December 2003 (extracts)

Current liabilities:
Tax payable
Non-current liabilities
Deferred tax (note 2)
\$1,000,000
\$1,750,000

## Answer to Question Six

The International Accounting Standards Board's Framework for the preparation and presentation of financial statements (the Framework) defines a liability as:
"a present obligation of the enterprise arising from past events, the settlement of which is expected to result in an outflow of resources from the enterprise."
IAS 37 defines a provision as a liability of uncertain timing or amount. A provision is only recognised when:

- There is a present obligation (legal or constructive) arising as a result of a past event.
- It is probable (or more likely than not) that an outflow of resources embodying economic benefits will be required to settle the obligation.
- A reliable estimate can be made of the amount of the obligation.

This definition is very similar to the one given in the IASB's Framework for a liability.
"...a present obligation of the enterprise arising from past events."
A provision is a present obligation arising from a past event. The event must already have happened at the balance sheet date. If the event has not occurred, the entity may be able to avoid it, so a provision will not be made.

The obligation can arise from legal consequences or could be constructive.
Constructive obligations arise out of past practice or as a result of promises previously made which have created the expectation that the organisation would honour its promise. Therefore a provision meets this part of the definition of a liability.
"...the settlement of which is expected to result in an outflow of resources from the enterprise."

Settlement is probably going to result in an outflow of resources. If the outflow of resources is more likely than not to occur it can be expected to happen, thus meeting this part of the definition of a liability.

## Answer to Question Seven

|  |  | $\$$ |
| :--- | :---: | :---: |
| Payments under the lease | $5 \times 21,000$ | 105,000 |
| Fair value |  | 88,300 |
| Finance charge |  | 16,700 |

Finance charge spread using 5 years' sum of digits
\$

| Yr 1 | $5 / 15 \times 16,700=$ | 5,567 |
| :--- | :--- | :--- |
| Yr 2 | $4 / 15 \times 16,700=$ | 4,453 |
| Yr 3 | $3 / 15 \times 16,700=$ | 3,340 |
| Yr 4 | $2 / 15 \times 16,700=$ | 2,227 |
| Yr 5 | $1 / 15 \times 16,700=$ | 1,113 |


| Balance | Finance <br> charge | Repayment | Balance |
| :---: | :---: | :---: | ---: |
| 88,300 | 5,567 | 21,000 | 72,867 |
| 72,867 | 4,453 | 21,000 | 56,320 |
| 56,320 | 3,340 | 21,000 | 38,660 |
| 38,660 | 2,227 | 21,000 | 19,887 |
| 19,887 | 1,113 | 21,000 | 0 |

Income statement (extracts)
Year 1 \$
Depreciation 17,660
Finance charge $\quad 5,567$
Year 2 \$
Depreciation 17,660
Finance charge $\quad 4,453$

| Balance sheet (extracts) | $\$$ <br> Year 1 | $\$$ <br>  <br> Non-current assets at cost - leased <br> Provision for depreciation |
| :--- | :---: | :---: |
| Net book value | $\underline{17,600}$ | 88,300 |
| Liabilities - amounts due under leases | $\underline{70,640}$ | $\underline{35,320}$ |
| Current liabilities |  |  |
| Non-current liabilities | 16,547 |  |
|  | 56,320 | 17,660 |
|  |  | 38,660 |

## SECTION C

## Answer to Question Eight

## AZ - Income Statement for the year ended 31 March 2003

|  | $\$ 000$ | $\$ 000$ |
| :--- | ---: | ---: |
| Revenue |  | 124,900 |
| Cost of sales (W1) |  | $(99,735)$ |
| Gross profit | $(9,573)$ |  |
| Distribution costs (W4) | $(16,045)$ |  |
| Administration expenses (W3) | $(121)$ | $(25,739)$ |
| Other operating expenses | $(1,278)$ | $(574)$ |
| Loss from operations | 1,200 | $-(78)$ |
| Finance cost (W7) |  | $(652)$ |
| Income from other fixed asset investments |  | $(15)$ |
| Loss before tax |  | $(667)$ |

## AZ - Statement of Changes in Equity for the year ended 31 March 2003

$\left.\begin{array}{lcccr} & \text { Share } \\ \text { capital }\end{array} \begin{array}{c}\text { Share } \\ \text { premium }\end{array} \begin{array}{c}\text { Accumulated } \\ \text { profits }\end{array}\right)$ Total equity

AZ - Balance Sheet at 31 March 2003

|  | $\$ 000$ <br> Cost | $\$ 000$ <br> Depreciation | $\$ 000$ <br> Net Book <br> Value |
| :--- | :---: | :---: | :---: |
| Non-current Assets | $\underline{34,035}$ | $\underline{14,306}$ | 19,729 |
| Property, plant and equipment (W9) |  | 5,180 |  |
| Current Assets | 9,330 |  |  |
| Inventory | $\underline{26,250}$ |  |  |
| Trade receivables (W8) |  | $\underline{40,760}$ |  |
| Cash at bank \& in hand |  | $\underline{60,489}$ |  |
|  |  | 20,000 |  |
| Capital and Reserves | 430 |  |  |
| Called up share capital | $\underline{13,010}$ | 33,440 |  |


| Non-current liabilities |  |  |
| :---: | :---: | :---: |
| 7\% Loan notes (redeemable 2007) |  | 18,250 |
| Other provisions |  | 25 |
| Current liabilities |  |  |
| Trade payables |  | 8,120 |
| Tax |  | 15 |
| Accruals (W7) |  | 639 |
| Workings |  |  |
| W1 Cost of sales: |  |  |
| Opening inventory | 4,852 |  |
| Cost of goods manufactured in year | 94,000 |  |
|  | 98,852 |  |
| Less closing inventory | $(5,180)$ |  |
|  | 93,672 |  |
| Add depreciation - plant and equipment (W2) | 6,063 |  |
|  | 99,735 |  |
| W2 Depreciation |  |  |
| Plant and equipment, cost | 30,315 |  |
| Depreciation for year @ 20\% | 6,063 | (IS) |
| Depreciation b/f | 6,060 |  |
| Depreciation c/f | 12,123 | (BS) |
| W3 Administration expenses |  |  |
| Per trial balance | 16,020 |  |
| Provision for legal claim | 25 |  |
|  | 16,045 |  |
| W4 Distribution expenses |  |  |
| Per trial balance | 9,060 |  |
| Depreciation vehicles (W5) | 513 |  |
|  | 9,573 |  |
| W5 Depreciation |  |  |
| Vehicles, cost | 3,720 |  |
| Depreciation b/f | 1,670 |  |
|  | 2,050 |  |
| Depreciation for year @ 25\% | 513 | (IS) |
| Depreciation b/f | 1,670 |  |
| Depreciation c/f | 2,183 | (B/S) |
| W6 Dividends |  |  |
| Dividends paid |  |  |
| Ordinary dividend $0.05 \times 20$ million shares $=$ | 1,000 | (SCE) |
| W7 Finance cost |  |  |
| 7\% interest on Loan notes | 1,278 | (IS) |
| Paid | 639 |  |
| Accrued interest | 639 | (B/S) |

18,275 51,715

## Current liabilities

 8,774 60,489
## Workings

W2 Depreciation
Plant and equipment, cost $\underline{30,315}$
Depreciaition blf enear
Depreciation c/f $\quad \underline{12,123}$

## Administration expenses

Provision for legal claim
16,045
W4 Distribution expenses
Per trial balance
9,060
Depreciation vehicles (W5)
513

## W5 Depreciation

Vehicles, cost 3,720

2,050
Depreciation b/f $\quad 1,670$
Depreciation c/f

639
Accrued interest $\underline{639}$

| W8 Trade receivables | 9,930 |
| :--- | ---: |
| Provision for doubtful trade receivables | 600 |
| Trade receivables - Balance sheet | 9,330 |

## W9 Non-current assets

|  | Cost |  | Depreciation |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Plant | Vehicles | Plant (W2) | Vehicles (W5) |
| Balance b/f | 30,315 | 3,720 | 6,060 | 1,670 |
| Depreciation |  |  | 6,063 | 513 |
| Balance c/f | 30,315 | 3,720 | 12,123 | 2,183 |
| Totals | 34,035 |  | 14,306 |  |

## Answer to Question Nine

## TEX - Cash Flow Statement for the year ended 30 September 2003

|  | $\$ 000$ | $\$ 000$ |
| :--- | :---: | :---: |
| Cash inflow from operating activities |  |  |
| Cash receipts from customers (W1) | 14,300 |  |
| Cash paid to suppliers and employees (W2) | $(8,290)$ |  |
| Cash generated from operations | 6,010 | $(124)$ |
| Interest paid | $(485)$ |  |
| Income taxes paid (W4) |  | 5,401 |
| Net cash from operating activities | $(8,000)$ |  |
| Cash flows from investing activities | 730 |  |
| Purchase of property, plant and equipment (W6) <br> Proceeds from sale of equipment <br> Net cash used in investing activities <br> Cash flows from financing activities <br> Proceeds from issue of share capital (W5) <br> Repayment of long term borrowings <br> Dividends paid (W3) <br> Net cash from financing activities <br> Net decrease in cash and cash equivalents <br> Cash and cash equivalents at 30 September 2002 <br> Cash and cash equivalents at 30 September 2003 |  | $(7,019$ |
| 1,200$)$ |  |  |

## Notes

1 During the period the company acquired property, plant and equipment with an aggregate cost of $\$ 8$ million. These were paid for by cash.

2 Cash and cash equivalents consist of cash on hand and balances with banks. Cash and cash equivalents included in the cash flow statement comprise the following balance sheet amounts:

|  | 2002 | 2003 |
| :--- | :--- | :--- |
| Cash on hand and balances with banks | $\$ 000$ | $\$ 000$ |
|  | 1,200 | 150 |

## Workings

$\$ 000$W1 Cash receipts from customersTrade Receivables
Balance at 30 September 2002 ..... 800
Revenue from Income statement ..... 15,000 ..... 15,800
Balance at 30 September 2003 ..... 1,500
Receipts ..... 14,300
W2 Cash paid to suppliers and employees
Cost of Sales

| Income Statement | 9,000 |
| :--- | :---: |
| Less depreciation (W6) | $(2,640)$ |
| Less loss on disposal | $\frac{(970)}{5,390}$ |
| Income Statement cost of sales | $\underline{(1,100)}$ |
| Less inventory at 30 September 2002 | $\underline{1,600}$ |
|  | $\underline{5,890}$ |

Trade Payables
Balance at 30 September 2002 ..... 800
Purchases ..... 5,8906,690
Less balance at 30 September 2003
Payments to suppliers ..... (700)Total payments to suppliers and employeesPayments to suppliers5,990
Other expenses from Income Statement ..... 2,300
Total ..... 8,290
W3 Dividends
Balance at 30 September 2002 ..... 600
Income statement ..... 1,100
Less balance at 30 September 2003 ..... (700)
Paid ..... 1,000
W4 Income TaxesBalance at 30 September 2002
Taxes ..... 685
Deferred tax ..... 400
1,085
Income Statement ..... 1,040 ..... 2,125
Less balance at 30 September 2003
Taxes
Deferred tax$(1,040)$(600)485

| W5 - Share capital |  |  |
| :---: | :---: | :---: |
| Balance at 30 September 2002 | 7,815 |  |
| Balance at 30 September 2003 | 10,834 |  |
| Cash issue | 3,019 |  |
| W6 - Tangible non-current assets |  |  |
| Property | Cost | Depreciation |
|  | \$000 | \$000 |
| Balance at 30 September 2002 | 8,400 | 1,300 |
| Balance at 30 September 2003 | 11,200 | 1,540 |
| Purchased | 2,800 |  |
| Depreciation in year |  | 240 |
| Plant | Cost | Depreciation |
|  | \$000 | \$000 |
| Balance at 30 September 2002 | 10,800 | 3,400 |
| Less disposal | 2,600 | 900 |
|  | 8,200 | 2,500 |
| Balance at 30 September 2003 | 13,400 | 4,900 |
| Purchased | 5,200 |  |
| Depreciation in year |  | $\underline{2,400}$ |
| Total purchases | \$000 |  |
| Property | 2,800 |  |
| Plant | 5,200 |  |
|  | 8,000 |  |
| Total depreciation |  |  |
| Property | 240 |  |
| Plant | 2,400 |  |
|  | 2,640 |  |

