## Answers

## Fundamentals Level - Skills Module, Paper F7 (INT) <br> Financial Reporting (International)

1 (a) Pyramid - Consolidated statement of financial position as at 31 March 2012

(iii) Reconciliation of current accounts

|  | Pyramid | Square |
| :--- | :---: | :---: |
|  | $\$ \prime 000$ | $\$ \mathbf{0 0 0}$ |
| Current account balances per question to eliminate | 4,400 | 1,700 |
| Goods-in-transit (GIT) (16,000 - 14,500) |  | 1,500 |
| Cash-in-transit (CIT) (balance required to reconcile) | $\underline{(1,200)}$ | $\underline{3,200}$ |
|  | $\underline{3,200}$ |  |

The goods-in-transit sale of $\$ 1.5$ million includes unrealised profit (URP) of $\$ 500,000(1,500 \times 50 / 150)$.
(iv) Consolidated retained earnings:

|  | $\$ \prime 000$ |
| :--- | ---: |
| Pyramid's retained earnings $(16,200+14,000)$ | 30,200 |
| Square's post-acquisition profit $(7,400$ see below $\times 80 \%)$ | 5,920 |
| Cube's post-acquisition profit $(2,000 \times 30 \%)$ | 600 |
| Interest on deferred consideration $(6,400 \times 10 \%)$ | $(640)$ |
| URP in inventory (w (iii)) | $(500)$ |
| Gain on equity investments $(2,800-2,000)$ | $\underline{800}$ |
|  | $\underline{36,380}$ |

The adjusted post-acquisition profits of Square are:
As reported
Additional depreciation on plant (3,000/5 years)
(v) Non-controlling interest

| Fair value on acquisition (w (i)) | $\$ \mathbf{0 0 0}$ |
| :--- | :--- |
| Post-acquisition profit $(7,400 \times 20 \%(w)$ (iv))) | 7,000 |
|  | $\underline{1,480}$ |
| 8,480 |  |

2 (a) (i) Fresco - Statement of comprehensive income for the year ended 31 March 2012

| Revenue | $\begin{gathered} \$ ’ 000 \\ 350,000 \end{gathered}$ |
| :---: | :---: |
| Cost of sales (w (i)) | (311,000) |
| Gross profit | 39,000 |
| Distribution costs | $(16,100)$ |
| Administrative expenses (26,900 $+3,000$ re fraud) | $(29,900)$ |
| Finance costs (300 + 2,300 (w (ii)) | $(2,600)$ |
| Loss before tax | $(9,600)$ |
| Income tax relief (2,400 + 200 (w (iii) - 800) | 1,800 |
| Loss for the year | $(7,800)$ |
| Other comprehensive income |  |
| Revaluation of leased property (w (ii)) | 4,000 |
| Total comprehensive losses | $(3,800)$ |

(ii) Fresco - Statement of changes in equity for the year ended 31 March 2012

|  | Share capital \$'000 | Share premium \$'000 | Revaluation reserve \$'000 | Retained earnings \$'000 | Total equity \$'000 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Balances at 1 April 2011 | 45,000 | 5,000 | nil | 5,100 | 55,100 |
| Prior period adjustment (re fraud) |  |  |  | $(1,000)$ | $(1,000)$ |
| Restated balance |  |  |  | 4,100 |  |
| Rights share issue (see below) | 9,000 | 4,500 |  |  | 13,500 |
| Total comprehensive losses (see (i) above) |  |  | 4,000 | $(7,800)$ | $(3,800)$ |
| Transfer to retained earnings |  |  | (500) | 500 |  |
| Balances at 31 March 2012 | 54,000 | 9,500 | 3,500 | $(3,200)$ | 63,800 |

The rights issue was 18 million shares ( $45,000 / 50$ cents each $\times 1 / 5$ ) at 75 cents $=\$ 13.5$ million. This equates to the balance on the suspense account. This should be recorded as $\$ 9$ million equity shares ( $18,000 \times 50$ cents) and $\$ 4.5$ million share premium ( $18,000 \times(75$ cents -50 cents)).
The discovery of the fraud represents an error part of which is a prior period adjustment ( $\$ 1$ million) in accordance with IAS 8 Accounting policies, changes in accounting estimates and errors.
(iii) Fresco - Statement of financial position as at 31 March 2012

| Assets | \$'000 | \$'000 |
| :---: | :---: | :---: |
| Non-current assets |  |  |
| Property, plant and equipment (w (ii)) |  | 62,700 |
| Current assets |  |  |
| Inventory | 25,200 |  |
| Trade receivables (28,500-4,000 re fraud) | 24,500 |  |
| Current tax refund | 2,400 | 52,100 |
| Total assets |  | 114,800 |
| Equity and liabilities |  |  |
| Equity (see (ii) above) |  |  |
| Equity shares of 50 cents each |  | 54,000 |
| Reserves |  |  |
| Share premium | 9,500 |  |
| Revaluation | 3,500 |  |
| Retained earnings | $(3,200)$ | 9,800 |
|  |  | 63,800 |
| Non-current liabilities |  |  |
| Finance lease obligation (w (ii)) | 15,230 |  |
| Deferred tax (w (iii)) | 3,000 | 18,230 |
| Current liabilities |  |  |
| Trade payables | 27,300 |  |
| Finance lease obligation (19,300-15,230 (w (ii)) | 4,070 |  |
| Bank overdraft | 1,400 | 32,770 |
| Total equity and liabilities |  | 114,800 |

(b) Fresco - Basic earnings per share for the year ended 31 March 2012

Loss per statement of comprehensive income
Weighted average number of shares (w (iv))
$\$ 7.8$ million

Loss per share 99 million

Workings (figures in brackets are in $\$^{\prime} 000$ )

$$
7.9 \text { cents }
$$

(i) Cost of sales

Per question 298,700
Amortisation of - leased property (w (ii)) 4,500
Amortisation of - leased plant (w (ii)) 5,000
Depreciation of other plant and equipment ((47,500-33,500) $\times 20 \%$ )

## \$'000

2,800
311,000
(ii) Non-current assets

Carrying amount 1 April 2011 (48,000-16,000) 32,000
Revaluation reserve
Revalued amount 1 April 2011
Amortisation year to 31 March 2012 (over 8 years)
Carrying amount 31 March 2012

| 32,000 |
| ---: |
| 4,000 |
| 36,000 |
| $(4,500)$ |
| 31,500 |

$\$ 500,000$ (4,000/8 years) of the revaluation surplus will be transferred to retained earnings (reported in the statement of changes in equity).

Leased plant:
Fair value 1 April $2011 \quad 25,000$
Deposit $\quad \frac{(2,000)}{23,000}$
Interest at 10\% 2,300
Payment 31 March $2012 \quad(6,000)$
Lease obligation 31 March 2012 19,300
Interest at 10\% 1,930
Payment 31 March 2013
$(6,000)$
Lease obligation 31 March 2013
15,230
Amortisation for the leased plant for the year ended 31 March 2012 is $\$ 5$ million (25,000/5 years).
Summarising the carrying amount of property, plant and equipment as at 31 March 2012:
Leased property
Owned plant (47,500-33,500-2,800)
Leased plant (25,000-5,000)
(iii) Deferred tax

Provision required at 31 March 2012 (12,000 x 25\%)
Provision at 1 April 2011
$(3,200)$
Credit (reduction in provision) to income statement
(iv) Theoretical ex-rights value:

|  | Shares | \$ | \$ |
| :---: | :---: | :---: | :---: |
| Holding (say) <br> Rights taken up | 100 | 1.20 | 120 |
|  | 20 | $0 \cdot 75$ | 15 |
|  | 120 |  | 135 |
| Theoretical ex-rights value |  | $1 \cdot 125$ (\$135/120 shares) |  |
| Weighted average number of shares: |  |  |  |
| 1 April 2011 to 31 December 2011 | 90 million $\times 1 \cdot 20 / 1 \cdot 125 \times 9 / 12=$108 million $\times 3 / 12=$ |  | 72 million |
| 1 January 2012 to 31 March $2012 \quad 108$ million $\times 3 / 12=27$ million |  |  |
| Weighted average for the year |  |  |  |  | 99 million |

3 (a) Tangier - Statement of cash flows for the year ended 31 March 2012
(Note: figures in brackets are in \$ million)

| Cash flows from operating activities: | \$ m | \$ m |
| :---: | :---: | :---: |
| Profit before tax |  | 195 |
| Adjustments for: |  |  |
| Depreciation/amortisation of non-current assets |  | 140 |
| Finance costs |  | 40 |
| Increase in inventory (200-110) |  | (90) |
| Increase in trade receivables (195-75) |  | (120) |
| Increase in trade payables (210-160) |  | 50 |
| Cash generated from operations |  | 215 |
| Interest paid |  | (40) |
| Income tax paid (w (i)) |  | (90) |
| Net cash from operating activities |  | 85 |
| Cash flows from investing activities: |  |  |
| Purchase of property, plant and equipment (w (ii)) | (305) |  |
| Purchase of intangibles (300-200 + 25) | (125) |  |
| Purchase of investment | (230) |  |
| Net cash used in investing activities |  | (660) |
| Cash flows from financing activities: |  |  |
| Shares issued (350-250) | 100 |  |
| Issue of 10\% loan notes | 300 |  |
| Equity dividends paid (w (iii)) | (55) |  |
| Net cash from financing activities |  | 345 |
| Net decrease in cash and cash equivalents |  | (230) |
| Cash and cash equivalents at beginning of period |  | 120 |
| Cash and cash equivalents at end of period |  | (110) |

## Workings

(i) Income tax ..... \$ mProvision b/f(110)
Income statement charge ..... (60)
Tax paid (= balance) ..... 90
Provision c/f ..... (80)
(ii) Property, plant and equipment
Balance b/f ..... 410
Depreciation ..... (115)
Revaluation ..... 80
Acquired during year (= balance) ..... 305
Balance c/f ..... 680
(iii) Equity dividends
Retained earnings b/f ..... 295
Profit for the year ..... 135
Dividends paid (= balance) ..... (55)
Retained earnings c/f ..... 375
(b) Note: references to '2012' are in respect of the year ended 31 March 2012 and ' 2011 ' to the year ended 31 March 2011. Despite an increase in revenue of $48 \cdot 4 \%(880 / 1,820 \times 100)$ in 2012 , the company suffered a dramatic fall in its profitability. This has been caused by a combination of a falling gross profit margin (from $40 \%$ in 2011 to only $30 \%$ in 2012) and markedly higher operating overheads. An eight-fold increase in finance costs, caused by the increased borrowing at double the interest rate of existing borrowing and some bank overdraft interest, has led to profit before tax more than halving.

This is reflected in the ROCE falling from an impressive $61 \cdot 7 \%$ in 2011 to only $19 \cdot 5 \%$ in 2012 (though even this figure is respectable). The fall in the ROCE is attributable to a dramatic fall in profit margin at the operating level (from $21.9 \%$ in 2011 to only $8.7 \%$ in 2012) which has been compounded by a reduction in the non-current asset turnover, with only $\$ 2.23$ being generated from every $\$ 1$ invested in non-current assets in 2012 (from $\$ 2.98$ in 2011).

The information in the question points strongly to the possibility (even probability) that the new contract may be responsible for much of the deterioration in Tangier's performance. It is likely that the new contract may account for the increased revenue; however, the bidding process was 'competitive' which implies that Tangier had to cut its price (and therefore its profit margin) in order to win the contract.

The costs of fulfilling the contract have also been heavy:
Investment in property, plant and equipment has increased by $\$ 270$ million (at carrying amount) representing an increase of $66 \%$ (though this increase would be $46 \%$ on a comparative basis if carrying amounts in 2012 were adjusted for the effect of the property revaluation of $\$ 80$ million (ignoring its depreciation)).
The licence to manufacture the new engines has cost $\$ 125$ million (allowing for amortisation as shown in the statement of cash flows).
The investment in Raremetal to secure materials supplies has cost $\$ 230$ million. There has been no benefit in 2012 from this investment in terms of dividends or capital growth. It is impossible to quantify the benefit of securing material supplies, which was the main reason for the investment, but it has come at a high cost. It is also questionable how the investment has 'secured' the provision of materials as an $8 \%$ equity investment does not normally give any meaningful influence over the investee. An alternative (less expensive) strategy might have been to enter into a long-term supply contract with Raremetal.
The finance cost of the additional loan to partly fund the investment in non-current assets has also reduced reported profit and increased debt/equity (one form of gearing measure) from $18 \cdot 3 \%$ in 2011 to $49 \cdot 7 \%$ in 2012. At this level, particularly in view of the large increase from 2011, it may give debt holders (and others) cause for concern. If it could be demonstrated that the overdraft could not be cleared for some time, this would be an argument for including it in the calculation of debt/equity, making the gearing level even worse.
It could be speculated that the $73 \%$ increase in administrative expenses may be due to one-off costs associated with the tendering process (consultancy fees, management time, etc) and the $77 \%$ increase in distribution costs could be due to additional freight/packing/insurance costs of the engines and delivery distances may also be longer (even abroad).
All of this seems to indicate that the new contact has been very detrimental to Tangier's performance, but more information is needed to be sure. The contract was not signed until June 2011 and there is no information of when production/sales started, but clearly there has not been a full year's revenue from the contract. Also there is no information on how long (or what total value) the contract is for. Unless the contract is for a considerable time, the increased investment in operating assets represents a considerable risk. There are no figures for the separate revenues and costs of the contract, but from 2012's declining performance it does not seem profitable, thus even if the contract does secure work for several years, it is of doubtful benefit if the work is loss-making. An alternative scenario could be that the early costs associated with the contract are part of a 'learning curve' and that future production will be more efficient and therefore the contract may become profitable as a result.

## Salient ratios

Gross profit margin (810/2,700 x 100)
Profit margin before interest ( $235 / 2,700 \times 100$ )
ROCE (235/(805 + 400))
Non-current asset turnover ( $2,700 / 1,210$ )
Debt/equity (400/805)

| 2012 | 2011 |
| ---: | ---: |
| $30 \cdot 0 \%$ | $40 \cdot 0 \%$ |
| $8.7 \%$ | $21 \cdot 9 \%$ |
| $19.5 \%$ | $61 \cdot 7 \%$ |
| 2.23 times | 2.98 times |
| $49.7 \%$ | $18.3 \%$ |

## Tutorial note:

The workings for the 2012 ratio calculations are shown, the ratios for 2011 are calculated equivalently. Alternative ratio calculations and ratios would be acceptable. For example, ROCE and non-current asset turnover for 2012 could exclude the effect of the property revaluation and/or include the bank overdraft as long-term finance. Net asset turnover (revenue/capital employed) and gearing (debt/capital employed) could be given as alternatives.

4 (a) An impairment review is the procedure required by IAS 36 Impairment of assets to determine if and by how much an asset may have been impaired. An asset is impaired if its carrying amount is greater than its recoverable amount. In turn the recoverable amount of an asset is defined as the higher of its fair value less costs to sell or its value in use, calculated as the present values of the future net cash flows the asset will generate.
The problem in applying this definition is that assets rarely generate cash flows in isolation; most assets generate cash flows in combination with other assets. IAS 36 introduces the concept of a cash generating unit (CGU) which is the smallest identifiable group of assets that generate cash inflows that are (largely) independent of other assets. Where an asset forms part of a CGU any impairment review must be made on the group of assets as a whole. If impairment losses are then identified, they must be allocated and/or apportioned to the assets of the CGU as prescribed by IAS 36 .
(b) (i) The carrying amount of the plant at 31 March 2012, before the impairment review, is \$500,000 (800,000 - (150,000 $x 2)$ ) where $\$ 150,000$ is the annual depreciation charge (( 800,000 cost $-50,000$ residual value)/5 years).
This needs to be compared with the recoverable amount of the plant which must be its value in use as it has no market value at this date.

Value in use:

|  |  | Cash flow <br> '000 | Discount factor <br> at $10 \%$ | Present value <br> year ended: |
| :--- | :---: | :---: | :---: | :---: |
|  | 31 March 2013 | 220 | 0.91 | $\$ 00$ |
|  | 31 March 2014 | 180 | 0.83 | 200 |
|  | 31 March 2015 | $170+50$ | 0.75 | 149 |
|  |  |  |  | $\underline{165}$ |
|  |  |  | $\underline{514}$ |  |

At 31 March 2012, the plant's value in use of $\$ 514,000$ is greater than its carrying amount of $\$ 500,000$. This means the plant is not impaired and it should continue to be carried at $\$ 500,000$.
(ii)

|  | Per question | After plant <br> write off |  | After impairment <br> losses |
| :--- | :---: | :---: | :--- | :---: |
|  | $\$, 000$ | $\$ \mathbf{\prime} 000$ | write off in full | $\$ \mathbf{0 0 0}$ |
| Goodwill | 1,800 | 1,800 | nil |  |
| Patent | 1,200 | 1,200 | at realisable value | 1,000 |
| Factory | 4,000 | 4,000 | pro rata loss of $40 \%$ | 2,400 |
| Plant | 3,500 | 3,000 | pro rata loss of $40 \%$ | 1,800 |
| Receivables and cash | 1,500 | $\underline{1,500}$ | realisable value | $\underline{1,500}$ |
|  | $\underline{12,000}$ | $\underline{11,500}$ | value in use | $\underline{6,700}$ |

The plant with a carrying amount of $\$ 500,000$ that has been damaged to the point of no further use should be written off (it no longer meets the definition of an asset). The carrying amounts in the second column above are after writing off this plant.
After this, firstly, goodwill is written off in full.
Secondly, any remaining impairment loss should write off the remaining assets pro rata to their carrying amounts, except that no asset should be written down to less than its fair value less costs to sell (net realisable value).

After writing off the damaged plant the remaining impairment loss is $\$ 4.8$ million ( $11.5 \mathrm{~m}-6.7 \mathrm{~m}$ ) of which $\$ 1.8$ million is applied to the goodwill, $\$ 200,000$ to the patent (taking it to its realisable value) and the remaining $\$ 2.8$ million is apportioned pro rata at $40 \%(2 \cdot 8 \mathrm{~m} /(4 \mathrm{~m}+3 \mathrm{~m}))$ to the factory and the remaining plant.

The carrying amounts of the assets of Tilda, at 31 March 2012 after the accident, are as shown in the third column above.

5 (a) A rules-based accounting system is likely to be very descriptive and is generally considered to be a system which relies on a series of detailed rules or accounting requirements that prescribe how financial statements should be prepared. Such a system is considered less flexible, but often more comparable and consistent, than a principles-based system. Some would argue that rules-based systems can lead to looking for 'loopholes'. By contrast, a principles-based system relies on generally accepted accounting principles that are conceptually based and are normally underpinned by a set of key objectives. They are more flexible than a rules-based system, but they do require judgement and interpretation which could lead to inconsistencies between reporting entities and can sometimes lead to the manipulation of financial statements.

Because IFRSs are based on The Conceptual Framework for Financial Reporting, they are often regarded as being a principles-based system. Of course IFRSs do contain many rules and requirements (often lengthy and complex), but their critical feature is that IFRS 'rules' are based on underlying concepts. In reality most accounting systems have an element of both rules and principles and their designation as rules-based or principles-based depends on the relative importance and robustness of the principles compared to the volume and manner in which the rules are derived.
(b) There are several aspects of Baxen's business strategy where adopting IFRS would be advantageous.

It is unclear how sophisticated or developed the 'local' standards which it currently uses are, however, it is widely accepted that IFRS are a set of high quality and transparent global standards that are intended to achieve consistency and comparability across the world. They have been produced in co-operation with other internationally renowned standard setters, with the aspiration of achieving consensus and global convergence. Thus if Baxen does adopt IFRS it is likely that its status and reputation (for example, an improved credit rating) in the eyes of other entities would be enhanced.
Other more specific advantages might be:
Its own financial statements would be comparable with other companies that use IFRS. This would help the company to better assess and rank prospective investments in its foreign trading partners.

Should Baxen acquire (as a subsidiary) any foreign companies, it would make the task of consolidation much simpler as there would be no need to reconcile its foreign subsidiary's financial statements to the local generally accepted accounting principles (GAAP) that Baxen currently uses. The use of IFRSs may make the audit fee less expensive.

If Baxen needs to raise finance in the future (highly likely because of its ambitions), it will find it easier to get a listing on any security exchange that is a member of the International Organisation of Securities Commissions (IOSCO) as they recognise IFRS for listing purposes. This flexibility to raise funding also means that Baxen's financing costs should be lower.

## Fundamentals Level - Skills Module, Paper F7 (INT)

Financial Reporting (International)
This marking scheme is given as a guide in the context of the suggested answers. Scope is given to markers to award marks for alternative approaches to a question, including relevant comment, and where well-reasoned conclusions are provided. This is particularly the case for written answers where there may be more than one acceptable solution.
Marks1 Statement of financial position:
property, plant and equipment ..... 2
goodwill ..... $41 / 2$
investments - associate ..... 1

- other equity ..... 1
inventory ..... 2
receivables ..... $11 / 2$
bank ..... 1
equity shares ..... $1 / 2$
share premium ..... 1/2
retained earnings ..... 41/2
non-controlling interest ..... $11 / 2$
$11 \%$ loan notes ..... $11 / 2$
deferred tax ..... 1
deferred consideration ..... 1
other current liabilities ..... $11 / 2$
Total for question ..... 25
2 (a) (i) Statement of comprehensive income revenue ..... $1 / 2$
cost of sales ..... 3
distribution costs ..... 1/2
administrative expenses ..... 1
finance costs ..... $11 / 2$
income tax relief ..... 2
other comprehensive income ..... $1 / 2$
(ii) Statement of changes in equity
balances b/f ..... 1
prior period adjustment ..... 1
rights issue ..... 1
comprehensive income ..... 1
transfer to retained earnings ..... 1
(iii) Statement of financial position property, plant and equipment ..... $2^{1 / 2}$
inventory ..... $1 / 2$
trade receivables ..... 1
current tax ..... 1
non-current lease obligation ..... $1 / 2$
deferred tax ..... 1
trade payables ..... 1/2
current lease obligation ..... $1 / 2$
bank overdraft ..... 1/28
(b) Basic earnings per share loss per comprehensive income ..... 1/2
theoretical ex-rights value ..... 1
calculation of weighted average number of shares ..... $1^{1 / 2}$3
Total for question ..... 25
Marks
3 (a) profit before tax ..... 1/2
depreciation/amortisation ..... 1
finance cost adjustment (added back) ..... $1 / 2$
working capital items ..... $11 / 2$
interest paid (outflow) ..... 1/2
income tax paid ..... 1
purchase of property, property, plant and equipment ..... $11 / 2$
purchase of intangibles ..... 1
purchase of investment ..... $1 / 2$
share issue ..... $1 / 2$
10\% loan note issue ..... $1 / 2$
equity dividends paid ..... 1
cash b/f ..... $1 / 2$
cash c/f ..... 1/2
(b) 1 mark per valid point (up to 4 marks for ratios) ..... 14
Total for question ..... 25
4 (a) 1 mark per valid point ..... 4
(b) (i) carrying amount before impairment test ..... 1
value in use .....
conclude not impaired and carry at \$500,000 ..... 1
(ii) damaged plant written off ..... 1
goodwill written off
patent at \$1 million ..... 1
cash and receivables already at realisable value - no impairment ..... 1
calculation of remaining loss/pro rata percentage ..... 1
apply to building and plant only ..... 2
Total for question ..... 15
5 (a) 1 mark per valid point ..... 4
(b) 1 mark per valid point ..... 6
Total for question ..... 10

