Answers

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

	\$'000	\$'000
Assets Non-current assets:		
Property, plant and equipment (38,100 + 28,500 + 3,000 fair value – 600 deprecia	tion)	69,000
Goodwill (w (i)) Investments – associate (w (ii))	6,600	7,400
 fair value equity investments 	2,800	9,400
Current assets		85,800
Inventory (13,900 + 10,400 + 1,500 GIT - 500 URP (w (iii)))	25,300	
Trade receivables (11,400 + 5,500 - 1,200 CIT - 3,200 intra group (w (iii))) Bank (900 + 600 + 1,200 CIT (w (iii)))	12,500 2,700	40,500
Total assets		126,300
Equity and liabilities		
Equity attributable to owners of the parent		
Equity shares of \$1 each Reserves:		25,000
Share premium	17,600	
Retained earnings (w (iv))	36,380	53,980
Non-controlling interest (w (v))		78,980 8,480
Total equity		87,460
Non-current liabilities		
11% loan notes (12,000 + 4,000 - 2,500 intra-group) Deferred tax (4,500 + 1,000)	13,500 5,500	19,000
Current liabilities		13,000
Deferred consideration (6,400 + 640 unwinding of discount (w (iv)))	7,040	10.040
Other current liabilities (9,500 + 5,000 + 1,500 GIT – 3,200 intra group (w (iii)))	12,800	19,840
Total equity and liabilities		126,300
Workings (figures in brackets are in \$'000)		
(i) Goodwill in Square	\$1000	\$1000
Controlling interest	\$'000	\$'000
Share exchange		24,000
Deferred consideration (10,000 x 80% x 0·88/1·1) Non-controlling interest (10,000 x 20% x \$3·50)		6,400 7,000
		37,400
Equity shares	10,000	,
Pre-acquisition reserves Fair value adjustments – plant	18,000 3,000	
unrecorded deferred tax	(1,000)	(30,000)
Goodwill arising on acquisition		7,400
(ii) Carrying amount of Cube at 31 March 2012		
Cook		\$'000
Cost Share post-acquisition profit (2,000 x 30%)		6,000 600
		6,600

(iii) Reconciliation of current accounts

	Pyramid \$'000	Square \$'000
Current account balances per question to eliminate Goods-in-transit (GIT) (16,000 – 14,500)	4,400	1,700 1.500
Cash-in-transit (CIT) (balance required to reconcile)	(1,200)	
	3,200	3,200

The goods-in-transit sale of 1.5 million includes unrealised profit (URP) of 500,000 (1,500 x 50/150).

(iv) Consolidated retained earnings:

	Pyramid's retained earnings (16,200 + 14,000) Square's post-acquisition profit (7,400 see below x 80%) Cube's post-acquisition profit (2,000 x 30%) Interest on deferred consideration (6,400 x 10%) URP in inventory (w (iii)) Gain on equity investments (2,800 – 2,000)	\$'000 30,200 5,920 600 (640) (500) 800 36,380
	The adjusted post-acquisition profits of Square are:	
	As reported Additional depreciation on plant (3,000/5 years)	8,000 (600)
		7,400
(v)	Non-controlling interest	
	Fair value on acquisition (w (i)) Post-acquisition profit (7,400 x 20% (w (iv)))	\$'000 7,000 1,480 8,480

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

Cost of sales (w (i)) (311,000 Gross profit 39,000 Distribution costs (16,100 Administrative expenses (26,900 Finance costs (300 + 2,300 (w (ii))) (2,600 Loss before tax (6,600 Income tax relief (2,400 + 200 (w (iii)) - 800) 1,800 Loss for the year (4,800 Other comprehensive income Revaluation of leased property (w (ii)) 4,000		\$'000
Gross profit 39,000 Distribution costs (16,100 Administrative expenses (26,900 Finance costs (300 + 2,300 (w (ii))) (2,600 Loss before tax (6,600 Income tax relief (2,400 + 200 (w (iii)) - 800) 1,800 Loss for the year (4,800 Other comprehensive income Revaluation of leased property (w (ii))	Revenue	350,000
Distribution costs (16,100 Administrative expenses (26,900 Finance costs (300 + 2,300 (w (ii))) (2,600 Loss before tax (6,600 Income tax relief (2,400 + 200 (w (iii)) - 800) 1,800 Loss for the year (4,800 Other comprehensive income 4,000 Revaluation of leased property (w (ii)) 4,000	Cost of sales (w (i))	(311,000)
Administrative expenses (26,900 Finance costs (300 + 2,300 (w (ii))) (2,600 Loss before tax (6,600 Income tax relief (2,400 + 200 (w (iii)) - 800) 1,800 Loss for the year (4,800 Other comprehensive income 4,000 Revaluation of leased property (w (ii)) 4,000	Gross profit	39,000
Finance costs (300 + 2,300 (w (ii))) Loss before tax Income tax relief (2,400 + 200 (w (iii)) – 800) Loss for the year Other comprehensive income Revaluation of leased property (w (ii)) (2,600 (4,800) (4,800) (4,800)	Distribution costs	(16,100)
Loss before tax Income tax relief (2,400 + 200 (w (iii)) – 800) Loss for the year Other comprehensive income Revaluation of leased property (w (ii)) (6,600 1,800 4,800 4,000	Administrative expenses	(26,900)
Income tax relief (2,400 + 200 (w (iii)) - 800) Loss for the year Other comprehensive income Revaluation of leased property (w (ii)) 1,800 (4,800) 4,000	Finance costs (300 + 2,300 (w (ii)))	(2,600)
Loss for the year Other comprehensive income Revaluation of leased property (w (ii)) (4,800 4,000	Loss before tax	(6,600)
Other comprehensive income Revaluation of leased property (w (ii)) 4,000	Income tax relief (2,400 + 200 (w (iii)) - 800)	1,800
Revaluation of leased property (w (ii)) 4,000	Loss for the year	(4,800)
	Other comprehensive income	
Total comprehensive losses (800	Revaluation of leased property (w (ii))	4,000
·	Total comprehensive losses	(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
Rights share issue (see below)	9,000	4,500			13,500
Total comprehensive losses (see (i) above	.)		4,000	(4,800)	(800)
Balances at 31 March 2012	54,000	9,500	4,000	300	67,800

The rights issue was 18 million shares (45,000/50 cents each x 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 x 50 cents) and \$4.5 million share premium (18,000 x (75 cents – 50 cents)).

(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	
Current tax refund	2,400	_56,100
Total assets		118,800
Equity and liabilities		
Equity (see (ii) above)		E4 000
Equity shares of 50 cents each Reserves		54,000
Share premium	9,500	
Revaluation	4,000	
Retained earnings	300	13,800
		67,800
Non-current liabilities		07,000
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	<u>-</u>	118,800
		= 10,000

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

Loss per statement of comprehensive income	\$4.8 million
Weighted average number of shares (w (iv))	99 million
Loss per share	4·8 cents

Workings (figures in brackets are in \$'000)

		\$'000
(i)	Cost of sales	
	Per question Amortisation of – leased property (w (ii)) Amortisation of – leased plant (w (ii)) Depreciation of other plant and equipment ((47,500 – 33,500) x 20%)	298,700 4,500 5,000 2,800
		311,000
(ii)	Non-current assets	
	Carrying amount 1 April 2011 (48,000 – 16,000) Revaluation reserve	32,000 4,000
	Revalued amount 1 April 2011 Amortisation year to 31 March 2012 (over 8 years)	36,000 (4,500)
	Carrying amount 31 March 2012	31,500

	Leased plant: Fair value 1 April 2011 Deposit			25,000 (2,000) 23,000
	Interest at 10% Payment 31 March 2012			2,300 (6,000)
	Lease obligation 31 March 2012 Interest at 10% Payment 31 March 2013			19,300 1,930 (6,000)
	Lease obligation 31 March 2013			15,230
	Amortisation for the leased plant for the year	ar ended 31 M	larch 2012 is \$5 million (2	25,000/5 years).
	Summarising the carrying amount of prope	rty, plant and	equipment as at 31 March	2012:
	Leased property Owned plant (47,500 – 33,500 – 2,800) Leased plant (25,000 – 5,000)			31,500 11,200 20,000
				62,700
(iii)	Deferred tax			
	Provision required at 31 March 2012 (12,0 Provision at 1 April 2011	000 x 25%)		3,000 (3,200)
	Credit (reduction in provision) to statement	of profit or los	s (income statement)	200
(iv)	Theoretical ex-rights value:			
	Holding (say) Rights taken up	Shares 100 20 120	\$ 1·20 0·75	\$ 120 <u>15</u> 135
	Theoretical ex-rights value		1.125 (\$135/1	20 shares)
	Weighted average number of shares: 1 April 2011 to 31 December 2011 1 January 2012 to 31 March 2012 Weighted average for the year	90 million	x 1·20/1·125 x 9/12 = 108 million x 3/12 =	72 million 27 million 99 million

(c) The fair value of non-specialised properties is based on their existing use value (EUV) which reflects their value (the replacement cost of the service potential of the asset) as it is currently used, rather than their value were they to be put to an alternative use (when fair value would be an open market value (OMV)). For example, it may be possible for a factory to be developed into residential apartments which would be more valuable than the factory, but as long as the property is used as a factory, it should be valued on the basis of a factory.

Specialised properties, by contrast, should be valued on the basis of depreciated replacement cost. This is because there is no general market for such properties in their existing use or condition due to their specialised nature, thus EUV or OMV cannot be determined. The objective of using depreciated replacement cost is to make a realistic estimate of the current cost of constructing an asset that has the same service potential (remaining life) as the existing asset.

3 (a) Tangier – Statement of cash flows for the year ended 31 March 2012

(Note: figures in brackets are in \$ million)

(INOL	e: figures in brackets are in \$ fillillon)		
Profi	n flows from operating activities: t before tax stments for:	\$ m	\$ m 195
ĺ	Depreciation/amortisation of non-current assets Finance costs Increase in inventory $(200-110)$ Increase in trade receivables $(195-75)$ Increase in trade payables $(210-160)$		140 40 (90) (120) 50
Inter	n generated from operations est paid me tax paid (w (i))		215 (40) (90)
Cash Purc Purc	cash from operating activities In flows from investing activities: In hase of property, plant and equipment (w (ii)) In hase of intangibles (300 – 200 + 25) In hase of investment	(305) (125) (230)	85
Cash Shar Issue	cash used in investing activities In flows from financing activities: Itelese issued (350 – 250) Itelese of 10% loan notes Ity dividends paid (w (iii))	100 300 (55)	(660)
Net	cash from financing activities		345
	decrease in cash and cash equivalents n and cash equivalents at beginning of period		(230) 120
Cash	n and cash equivalents at end of period		(110)
Wor	kings		* m
(i)	Income tax		Φ III
	Provision b/f Statement of profit or loss (Income statement) charge Tax paid (= balance)		(110) (60) <u>90</u>
	Provision c/f		(80)
(ii)	Property, plant and equipment		
	Balance b/f Depreciation Revaluation Acquired during year (= balance)		410 (115) 80 305
	Balance c/f		680
(iii)	Equity dividends		
	Retained earnings b/f Profit for the year Dividends paid (= balance)		295 135 (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 48.4% (880/1,820 x 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 61.7% in 2011 to only 19.5% 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 18.3% in 2011 to 49.7% 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

	2012	2011
Gross profit margin (810/2,700 x 100)	30.0%	40.0%
Profit margin before interest (235/2,700 x 100)	8.7%	21.9%
ROCE (235/(805 + 400))	19.5%	61.7%
Non-current asset turnover (2,700/1,210)	2.23 times	2.98 times
Debt/equity (400/805)	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 \$'000	Discount factor at 10%	Present value \$'000
year ended:	31 March 2013	220	0.91	200
	31 March 2014	180	0.83	149
	31 March 2015	170 + 50	0.75	165
				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 \$'000	After plant write off \$'000		After impairment losses \$'000
Goodwill	1,800	1,800	write off in full	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	1,500	realisable value	1,500
	12,000	11,500	value in use	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 (11.5m – 6.7m) 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% (2.8m/(4m + 3m)) 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.

Although Rol Accounting Standards are highly developed (and in many respects similar to IFRS), it is widely accepted that IFRSs 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 (including the Rol's Accounting Standards Board), with the aspiration of achieving consensus and global convergence. Thus if Baxen does adopt IFRS and achieves a listing, it is likely that its status and reputation (for example, an improved credit rating) in the eyes of other entities, particularly those overseas, 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 that use IFRS, 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 Rol GAAP that Baxen currently uses. The use of IFRSs may make the audit fee less expensive.

If Baxen is successful in achieving a listing it will have to file its consolidated financial statements in IFRS, thus earlier adoption of IFRS will facilitate this process. Also, perhaps more for the longer term, if Baxen wishes to seek a listing on an overseas securities exchange that is a member of the International Organisation of Securities Commissions (IOSCO), the process would be much simpler as all IOSCO members recognise IFRS for listing purposes. This flexibility to raise funding also means that Baxen's financing costs may be lower.

Fundamentals Level – Skills Module, Paper F7 (IRL) Financial Reporting (Irish)

June 2012 Marking Scheme

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.

1	inverse inverse ban equipment shall retain non 11% defeated before the control of	erty, dwill estment entory ivable k ity sh re pre ined e -contr loar erred terred o	ares mium earnings olling interest n notes	Total for question	## Marks 2 4½ 1 1 2 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½ 2 1½ 2 1½ 2 4½ 2 1½ 2 4½ 2 1½ 2 4½ 2 4	
2	(a)	(i)	Statement of comprehensive income revenue cost of sales distribution costs administrative expenses finance costs income tax relief other comprehensive income Statement of changes in equity balances b/f rights issue comprehensive income		1/2 3 1/2 1/2 1/2 1 1/2 2 1/2 8 1/2 1 1 1 1 3	
		(iii)	Statement of financial position property, plant and equipment inventory trade receivables current tax non-current lease obligation deferred tax trade payables current lease obligation bank overdraft		2½ ½ ½ 1 ½ 1 ½ 1 ½ ½ 1½ ½ 1½	
	(b)	loss thec	c earnings per share per comprehensive income retical ex-rights value ulation of weighted average number of shares		1/2 1 1 ¹ / ₂ 3	
	(c)	1 m	ark per valid point	Total for question	3 25	

3	(a)	profit before tax depreciation/amortisation finance cost adjustment (added back) working capital items interest paid (outflow) income tax paid purchase of property, property, plant and equipment purchase of intangibles purchase of investment share issue 10% loan note issue equity dividends paid cash b/f cash c/f		Marks 1/2 1 1/2 11/2 11/2 1 11/2 1 1/2 1 1/2 1/2
	(b)	1 m	nark per valid point (up to 4 marks for ratios) Total for question	14 1 25
4	(a)	1 m	nark per valid point	4
	(b)	(i)	carrying amount before impairment test value in use conclude not impaired and carry at \$500,000	1 2 1 4
		(ii)	goodwill written off patent at \$1 million cash and receivables already at realisable value – no impairment calculation of remaining loss/pro rata percentage apply to building and plant only	1 1 1 1 1 2 7
			Total for question	n 15
5	(a)	1 m	nark per valid point	4
	(b)	1 m	nark per valid point Total for question	6 1 0