

# ADVANCED FINANCIAL ACCOUNTING

# **PROFESSIONAL 2 EXAMINATION - AUGUST 2008**

# NOTES:

Answer all questions.

# PRO-FORMA INCOME STATEMENT BY NATURE, INCOME STATEMENT BY FUNCTION AND BALANCE SHEET ARE PROVIDED

# TIME ALLOWED:

3.5 hours, plus 10 minutes to read the paper.

# **INSTRUCTIONS:**

During the reading time you may write notes on the examination paper but you may not commence writing in your answer book.

Marks for each question are shown. The pass mark required is 50% in total over the whole paper.

# Start your answer to each question on a new page.

You are reminded that candidates are expected to pay particular attention to their communication skills and care must be taken regarding the format and literacy of the solutions. The marking system will take into account the content of the candidates' answers and the extent to which answers are supported with relevant legislation, case law or examples where appropriate.

List on the cover of each answer booklet, in the space provided, the number of each question(s) attempted.

# **ADVANCED FINANCIAL ACCOUNTING**

PROFESSIONAL 2 EXAMINATION - AUGUST 2008

TIME ALLOWED: 3.5 hours and 10 minutes to read the paper.

Answer ALL questions.

1. RECONNECT plc (RECONNECT), a company based in Ireland, is involved in the provision of renewable energy. RECONNECT has an interest in two other companies, SUN Limited (SUN) and WIND Limited (WIND). SUN manufactures solar panels, while WIND manufactures wind turbines.

RECONNECT acquired all of the ordinary capital of SUN, an Australian company, on 14th June 2005 when SUN's retained earnings were A\$5,000,000. The fair value of SUN's net assets on 14th June 2005 was the same as their book value. The functional currency of RECONNECT is the euro ( $\in$ ), while the functional currency of SUN is the Australian dollar (A\$). SUN's day to day operations are not dependent upon RECONNECT.

RECONNECT acquired 30% of the ordinary share capital of WIND on 1st July 2007. The fair value of WIND's net assets on 1st July 2007 was the same as their book value. RECONNECT participates fully in WIND's financial and operating policy decisions.

RECONNECT, SUN and WIND prepare their financial statements to 31st December each year, and their draft income statements for the year ended 31st December 2007 and draft balance sheets as at that date are presented as follows:

	RECONNECT	SUN	WIND
	€'000	A\$'000	€'000
Revenue	15,200	28,200	7,800
Cost of sales	(8,250)	(17,000)	(4,080)
Gross profit	6,950	11,200	3,720
Operating expenses	(2,350)	(6,100)	(1,120)
Operation profit	4,600	5,100	2,600
Investment income	300	-	-
Finance costs	(150)	(200)	(100)
Profit before tax	4,750	4,900	2,500
Income tax expense	(950)	(980)	(500)
Profit after tax	3,800	3,920	2,000

#### Draft Income Statement for the Year Ended 31st December 2007

### Draft Balance Sheet as at 31st December 2007

	RECONNECT €'000	SUN A\$'000	WIND €'000
ASSETS		·	
Non-Current Assets			
Property, Plant and Equipment	25,000	22,000	16,000
Investment in SUN	7,500	-	-
Investment in WIND	5,000	-	-
Current Assets			
Inventory	1,800	3,800	900
Trade Receivables	2,450	4,900	600
Dividends Receivable	300	-	-
Bank and Cash	450	250	50
	42,500	30,950	17,550
EQUITY AND LIABILITIES			
Capital and Reserves			
€1/A\$1 Ordinary Shares	8,000	10,000	5,000
Retained Earnings	28,300	12,500	6,000
Non-Current Liabilities	3,500	4,000	3,000
Current Liabilities			
Trade Payables	1,900	2,650	1,250
Other Payables	800	300	2,300
Proposed Dividends		1,500	-
	42,500	30,950	17,550

### **Additional Information**

- 1. On 1st January 2004, RECONNECT planted an extensive area of land in the West of Ireland with young trees. After seven years the trees can be harvested and used in wood fuelled heating systems. On 1st January 2007, when the trees were three years old, RECONNECT entered into an agreement with GREEN INVESTMENT BANK plc (GREEN) to sell the trees to GREEN for €3,000,000. On 1st January 2007, the trees, which had originally cost €1,000,000, had an estimated market value of €4,000,000 due to increasing demand for energy systems that utilise natural resources. RECONNECT credited the cash received from GREEN to revenue and transferred the trees from inventory to cost of sales at their book value of €1,000,000. RECONNECT has an option to repurchase the trees at any time during the subsequent four years at a cost of €3,000,000 plus accumulated interest at 5% per annum, calculated from 1st January 2007. The Directors of RECONNECT intend to repurchase the trees from GREEN on 31st December 2010 and resell them for €6,000,000.
- 2. Given the nature of their business, and in order to encourage new customers, WIND has a policy of refunding purchases to dissatisfied customers, even though the company has no legal obligation to do so. The company's refund policy is generally known. For accounting purposes, WIND calculates returns as 5% of revenue each year. On average, 50% of returns are in respect of damaged turbines and have to be scrapped, whilst 50% are suitable for re-sale. The cost of re-saleable returns is estimated to be 30% of sales value. Of the sales in 2007, 4% has already been refunded during the year by WIND.
- 3. In December 2007, SUN's Directors proposed dividends of A\$1,500,000. RECONNECT has taken account of its share of these dividends as SUN's shareholders are expected to approve the dividends in 2008.
- 4. The activities and transactions of RECONNECT, SUN and WIND occur evenly throughout the year. There has been no change in the ordinary share capital of the three companies since their incorporation. The Directors of RECONNECT estimate that goodwill arising on the acquisition of SUN and WIND was impaired for the first time on 31st December 2007 by €500,000 and €200,000 respectively.

5. Rates of exchange between the Euro ( $\in$ ) and the Australian dollar (A\$) were as follows:

### **REQUIREMENT:**

Prepare the consolidated income statement for the year ended 31st December 2007, and the consolidated balance sheet as at that date, for RECONNECT group in a form suitable for publication.

(59 Marks ) Format & Presentation (6 Marks) [Total: 65 Marks]

Notes to the consolidated income statement and consolidated balance sheet are NOT required.

2. The Directors of RECONNECT have identified WATER Limited (WATER), a company involved in the generation of hydro electricity, as a potential acquisition target. RECONNECT has obtained the following information with respect to WATER.

# WATER Income Statement for the Year Ended 31st December

	2007	2006
	€'000	€'000
Revenue	888,500	847,500
Cost of sales	(762,200)	(731,000)
Gross profit	126,300	116,500
Operating expenses	_(35,200)	(32,900)
Operation profit	91,100	83,600
Net finance costs	_(29,100)	(25,200)
Profit before tax	62,000	58,400
Income tax expense	(15,200)	(18,500)
Profit after tax	46,800	39,900

# WATER

# Balance Sheet as at 31st December

	2007 €'000	2006 €'000
ASSETS		
Non-Current Assets		
Property, plant and equipment	793,500	756,700
Current Assets		
Inventory	19,000	13,700
Other receivables	11,800	10,000
Cash and cash equivalents	19,100	21,100
Assets held for sale	800	2,400
	844,200	803,900
EQUITY AND LIABILITIES Capital and Reserves		
€1 ordinary shares	145.800	139.900
Retained earnings	26,800	61,700
Non-Current Liabilities		
Financial liabilities	456,500	383,800
Deferred tax	85,600	89,600
Current Liabilities		
Trade and other payables	119,200	118,100
Current income tax	10,300	10,800
	844,200	803,900

### WATER Cash Flow Statement for the Year Ended 31st December

€'000 $€'000$ Net Cash Flows from Operating ActivitiesCash generated from operations124,900133,300Interest received200300Interest paid(27,600)(23,400)Refinancing cost paid-(1,400)Corporation tax paid(19,600)(14,800)Purchase of own shares for share-based payments(1,500)(3,500)Purchase of property, plant and equipment(76,000)(37,500)Proceeds of sale of property, plant and equipment(76,000)(37,500)Proceeds of sale of property, plant and equipment(10,300)(7,400)Net Cash Flows from Financing ActivitiesEquity dividends paid(10,300)(7,400)Proceeds from issue of shares5,9007,000Purchase of bank loans76,100304,500Purchase of bank loans-(280,000)Finance lease principal payments(1,900)-(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Opening Cash and Cash Equivalents21,10018,100Opening Cash and Cash Equivalents21,10018,100		2007	2006
Net Cash Flows from Operating ActivitiesCash generated from operations124,900133,300Interest received200300Interest paid(27,600)(23,400)Refinancing cost paid-(1,400)Corporation tax paid(19,600)(14,800)Purchase of own shares for share-based payments(1,500)(3,500)76,40090,500Net Cash Flows from Investing Activities-(76,000)Purchase of property, plant and equipment(76,000)(37,500)Proceeds of sale of property, plant and equipment(71,200)(32,900)Net Cash Flows from Financing ActivitiesEquity dividends paid(10,300)(7,400)Proceeds from issue of shares5,9007,000Purchase of bank loans76,100304,500Repayments of bank loans-(280,000)Finance lease principal payments(1,900)-(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Closing Cash and Cash Equivalents21,10018,100		€'000	€'000
Cash generated from operations124,900133,300Interest received200300Interest paid(27,600)(23,400)Refinancing cost paid-(1,400)Corporation tax paid(19,600)(14,800)Purchase of own shares for share-based payments(1,500)(3,500)Purchase of property, plant and equipment(76,000)(37,500)Proceeds of sale of property, plant and equipment $\frac{4,800}{(71,200)}$ $\frac{4,600}{(32,900)}$ Net Cash Flows from Financing ActivitiesEquity dividends paid(10,300)(7,400)Proceeds from issue of shares5,9007,0007,000Purchase of bank loans76,100304,500-Cash release principal payments(1,900)-(280,000)Finance lease principal payments(1,900)Corecease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Corecease - Cash and Cash Equivalents21,10018,100Corecease - Cash and Cash Equivalents21,10021,100	Net Cash Flows from Operating Activities		
Interest received200300Interest paid(27,600)(23,400)Refinancing cost paid-(1,400)Corporation tax paid(19,600)(14,800)Purchase of own shares for share-based payments(1,500)(3,500)Purchase of property, plant and equipment(76,000)(37,500)Proceeds of sale of property, plant and equipment $4,800$ $4,600$ Purchase of shares(10,300)(7,400)Proceeds from Financing Activities $200$ $300$ Purchase of shares $5,900$ $7,000$ Proceeds from issue of shares $5,900$ $7,000$ Purchase of shares $(77,000)$ (78,700)Advances of bank loans $-$ (280,000)Finance lease principal payments $(1,900)$ $-$ (Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$ Classing Cash and Cash Equivalents $21,100$ $19,100$ Classing Cash and Cash Equivalents $21,100$ $19,100$	Cash generated from operations	124,900	133,300
Interest paid $(27,600)$ $(23,400)$ Refinancing cost paid- $(1,400)$ Corporation tax paid $(19,600)$ $(14,800)$ Purchase of own shares for share-based payments $(1,500)$ $(3,500)$ Purchase of own shares for share-based payments $(1,500)$ $(3,500)$ Net Cash Flows from Investing ActivitiesPurchase of property, plant and equipment $(76,000)$ $(37,500)$ Proceeds of sale of property, plant and equipment $(76,000)$ $(37,500)$ Net Cash Flows from Financing ActivitiesEquity dividends paid $(10,300)$ $(7,400)$ Proceeds from issue of shares $5,900$ $7,000$ Purchase of bark loans $5,900$ $7,000$ Purchase of bank loans $76,100$ $304,500$ Finance lease principal payments $(1,900)$ $-$ (Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$	Interest received	200	300
Refinancing cost paid- $(1,400)$ Corporation tax paid $(19,600)$ $(14,800)$ Purchase of own shares for share-based payments $(1,500)$ $(3,500)$ Purchase of own shares for share-based payments $(1,500)$ $(3,500)$ Net Cash Flows from Investing ActivitiesPurchase of property, plant and equipment $(76,000)$ $(37,500)$ Proceeds of sale of property, plant and equipment $(76,000)$ $(37,500)$ $(32,900)$ Net Cash Flows from Financing ActivitiesEquity dividends paid $(10,300)$ $(7,400)$ Proceeds from issue of shares $5,900$ $7,000$ Purchase of shares $(77,000)$ $(78,700)$ Advances of bank loans $76,100$ $304,500$ Repayments of bank loans $ (280,000)$ Finance lease principal payments $(1,900)$ $ (7,200)$ $(54,600)$ $(54,600)$ (Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$ Clasing Cash and Cash Equivalents $21,100$ $21,100$	Interest paid	(27,600)	(23,400)
Corporation tax paid $(19,600)$ $(14,800)$ Purchase of own shares for share-based payments $(1,500)$ $(3,500)$ Purchase of own shares for share-based payments $(1,500)$ $(3,500)$ Net Cash Flows from Investing ActivitiesPurchase of property, plant and equipment $(76,000)$ $(37,500)$ Proceeds of sale of property, plant and equipment $4,800$ $4,600$ $(71,200)$ $(32,900)$ Net Cash Flows from Financing ActivitiesEquity dividends paid $(10,300)$ $(7,400)$ Proceeds from issue of shares $5,900$ $7,000$ Purchase of shares $(77,000)$ $(78,700)$ Advances of bank loans $76,100$ $304,500$ Repayments of bank loans $ (280,000)$ Finance lease principal payments $(1,900)$ $ (7,200)$ $(54,600)$ $(54,600)$ (Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$ $(21,100)$ $(21,100)$ $(21,100)$	Refinancing cost paid	-	(1,400)
Purchase of own shares for share-based payments $(1,500)$ $76,400$ $(3,500)$ $90,500$ Net Cash Flows from Investing Activities $(76,000)$ $(37,500)$ Purchase of property, plant and equipment $(76,000)$ $(37,500)$ Proceeds of sale of property, plant and equipment $4,800$ $(71,200)$ $(32,900)$ Net Cash Flows from Financing Activities $(10,300)$ $(7,400)$ Equity dividends paid $(10,300)$ $(7,400)$ Proceeds from issue of shares $5,900$ $7,000$ Purchase of shares $(77,000)$ $(78,700)$ Advances of bank loans $76,100$ $304,500$ Repayments of bank loans $ (280,000)$ Finance lease principal payments $(1,900)$ $-$ (Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$	Corporation tax paid	(19,600)	(14,800)
76,40090,500Net Cash Flows from Investing ActivitiesPurchase of property, plant and equipment(76,000)(37,500)Proceeds of sale of property, plant and equipment $\frac{4,800}{(71,200)}$ $\frac{4,600}{(32,900)}$ Net Cash Flows from Financing ActivitiesEquity dividends paid(10,300)(7,400)Proceeds from issue of shares5,9007,000Purchase of shares(77,000)(78,700)Advances of bank loans76,100304,500Repayments of bank loans-(280,000)Finance lease principal payments(1,900)-(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Choice Cash and Cash Equivalents21,10021,100	Purchase of own shares for share-based payments	(1,500)	(3,500)
Net Cash Flows from Investing ActivitiesPurchase of property, plant and equipment(76,000)(37,500)Proceeds of sale of property, plant and equipment4,8004,600(71,200)(32,900)(32,900)Net Cash Flows from Financing ActivitiesEquity dividends paid(10,300)(7,400)Proceeds from issue of shares5,9007,000Purchase of shares(77,000)(78,700)Advances of bank loans76,100304,500Finance lease principal payments(1,900)-(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Clocing Cash and Cash Equivalents21,10021,100		76,400	90,500
Net Cash Flows from Investing ActivitiesPurchase of property, plant and equipment $(76,000)$ $(37,500)$ Proceeds of sale of property, plant and equipment $4,800$ $4,600$ $(71,200)$ $(32,900)$ $(71,200)$ $(32,900)$ Net Cash Flows from Financing ActivitiesEquity dividends paid $(10,300)$ $(7,400)$ Proceeds from issue of shares $5,900$ $7,000$ Purchase of shares $(77,000)$ $(78,700)$ Advances of bank loans $76,100$ $304,500$ Repayments of bank loans $ (280,000)$ Finance lease principal payments $(1,900)$ $ (7,200)$ $(54,600)$ $(72,000)$ $(54,600)$ Opening Cash and Cash Equivalents $21,100$ $18,100$ Closing Cash and Cash Equivalents $21,100$ $21,100$			
Purchase of property, plant and equipment $(76,000)$ $(37,500)$ Proceeds of sale of property, plant and equipment $\frac{4,800}{(71,200)}$ $\frac{4,600}{(32,900)}$ Net Cash Flows from Financing Activities $(10,300)$ $(7,400)$ Equity dividends paid $(10,300)$ $(7,400)$ Proceeds from issue of shares $5,900$ $7,000$ Purchase of shares $(77,000)$ $(78,700)$ Advances of bank loans $76,100$ $304,500$ Repayments of bank loans $ (280,000)$ Finance lease principal payments $(1,900)$ $-$ (Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$ Closing Cash and Cash Equivalents $21,100$ $21,100$	Net Cash Flows from Investing Activities		
Proceeds of sale of property, plant and equipment $4,800$ (71,200) $4,600$ (32,900)Net Cash Flows from Financing ActivitiesEquity dividends paid(10,300)(7,400)Proceeds from issue of shares5,9007,000Purchase of shares(77,000)(78,700)Advances of bank loans76,100304,500Repayments of bank loans-(280,000)Finance lease principal payments(1,900)-(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Closing Cash and Cash Equivalents21,100110,100	Purchase of property, plant and equipment	(76,000)	(37,500)
Net Cash Flows from Financing Activities(71,200)(32,900)Equity dividends paid(10,300)(7,400)Proceeds from issue of shares5,9007,000Purchase of shares(77,000)(78,700)Advances of bank loans76,100304,500Repayments of bank loans-(280,000)Finance lease principal payments $(1,900)$ -(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents $21,100$ $18,100$ Closing Cash and Cash Equivalents $21,100$ $21,100$	Proceeds of sale of property, plant and equipment	4,800	4,600
Net Cash Flows from Financing ActivitiesEquity dividends paid(10,300)(7,400)Proceeds from issue of shares5,9007,000Purchase of shares(77,000)(78,700)Advances of bank loans76,100304,500Repayments of bank loans-(280,000)Finance lease principal payments(1,900)-(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Closing Cash and Cash Equivalents19,10021,100		(71,200)	(32,900)
Net Cash Flows from Financing ActivitiesEquity dividends paid $(10,300)$ $(7,400)$ Proceeds from issue of shares $5,900$ $7,000$ Purchase of shares $(77,000)$ $(78,700)$ Advances of bank loans $76,100$ $304,500$ Repayments of bank loans- $(280,000)$ Finance lease principal payments $(1,900)$ - $(1,900)$ $(7,200)$ $(54,600)$ (Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$ Closing Cash and Cash Equivalents $21,100$ $21,100$			
Equity dividends paid $(10,300)$ $(7,400)$ Proceeds from issue of shares $5,900$ $7,000$ Purchase of shares $(77,000)$ $(78,700)$ Advances of bank loans $76,100$ $304,500$ Repayments of bank loans- $(280,000)$ Finance lease principal payments $(1,900)$ - $(7,200)$ $(54,600)$ $(54,600)$ (Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$ Closing Cash and Cash Equivalents $21,100$ $21,100$	Net Cash Flows from Financing Activities	(10,000)	(7,400)
Proceeds from issue of shares5,9007,000Purchase of shares $(77,000)$ $(78,700)$ Advances of bank loans76,100 $304,500$ Repayments of bank loans- $(280,000)$ Finance lease principal payments $(1,900)$ - $(7,200)$ $(54,600)$ $(54,600)$ (Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$ Closing Cash and Cash Equivalents $19,100$ $21,100$	Equity dividends paid	(10,300)	(7,400)
Purchase of shares $(77,000)$ $(78,700)$ Advances of bank loans76,100304,500Repayments of bank loans-(280,000)Finance lease principal payments $(1,900)$ - $(7,200)$ $(54,600)$ (54,600)(Decrease) / increase in cash and cash equivalents $(2,000)$ $3,000$ Opening Cash and Cash Equivalents $21,100$ $18,100$ Closing Cash and Cash Equivalents $19,100$ $21,100$	Proceeds from issue of shares	5,900	7,000
Advances of bank loans76,100304,500Repayments of bank loans-(280,000)Finance lease principal payments(1,900)-(7,200)(54,600)(54,600)(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Closing Cash and Cash Equivalents19,10021,100	Purchase of shares	(77,000)	(78,700)
Repayments of bank loans - (280,000)   Finance lease principal payments (1,900) -   (7,200) (54,600)   (Decrease) / increase in cash and cash equivalents (2,000) 3,000   Opening Cash and Cash Equivalents 21,100 18,100   Closing Cash and Cash Equivalents 19,100 21,100	Advances of bank loans	76,100	304,500
Finance lease principal payments(1,900) (7,200)-(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Closing Cash and Cash Equivalents19,10021,100	Repayments of bank loans	-	(280,000)
(7,200)(54,600)(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Closing Cash and Cash Equivalents19,10021,100	Finance lease principal payments	(1,900)	-
(Decrease) / increase in cash and cash equivalents(2,000)3,000Opening Cash and Cash Equivalents21,10018,100Closing Cash and Cash Equivalents19,10021,100		(7,200)	(54,600)
Opening Cash and Cash Equivalents21,10018,100Closing Cash and Cash Equivalents21,10021,100	(Decrease) / increase in cash and cash equivalents	(2 000)	3 000
$\frac{21,100}{10,100}$	Opening Cash and Cash Equivalents	21 100	18 100
	Closing Cash and Cash Equivalents	19.100	21,100

### **REQUIREMENT:**

Prepare a report addressed to the Board of Directors of RECONNECT which clearly:

- (a) Interprets and evaluates the financial performance and position of WATER; and (14 Marks)
- (b) Identifies any additional information that should be obtained before deciding whether to proceed with the acquisition of WATER. (5 Marks)

Presentation Marks (1 Mark)

### [Total: 20 Marks]

- **3.** (a) What is environmental accounting? (5 Marks)
  - (b) Why might businesses consider adopting environmental accounting as part of their accounting systems? (10 Marks)

### [Total: 15 Marks]

[Total: 100 Marks]

# **END OF PAPER**

# SUGGESTED SOLUTIONS

THE INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS IN IRELAND

# **ADVANCED FINANCIAL ACCOUNTING**

PROFESSIONAL 2 EXAMINATION - AUGUST 2008

# **SOLUTION 1**

RECONNECT Consolidated Income Statement for the Year Ended 31st December 2007

	RECONNECT €'000	SUN €'000	Adjustments €'000	Consolidated €'000
		(See w3)		
Revenue	15,200	7,050	(w7a) (3,000)	19,250
Cost of sales	(8,250)	(4,250)	(w7a) 1,000	(11,500)
Gross profit	6,950	2,800	· <u>· · · · · · · · · · · · · · · · · · </u>	7,750
Operating expenses	(2,350)	(1,525)	(w2) (500)	(4,375)
Operating profit	4,600	1,275		3,375
Investment income	300	-	(w1b) (300)	-
Finance costs	(150)	(50)	(w7b) (150)	(350)
Share of profit of associate	-	-	(w10) 92,395	92,395
Profit before tax	4,750	1,225	· · · · · · · · · · · · · · · · · · ·	3,117,395
Income tax expense	(950)	(245)		(1,195)
Profit after tax	3,800	980		1,922,395

RECONNECT Consolidated Balance Sheet as at 31st December 2007

Format & presentation 2 Marks

	RECONNECT €'000	SUN €'000 (see w4)	Adjustments €'000	Consolidated €'000
ASSETS		X /		
Non Current Assets				
Property, plant and equipment	25,000	4,400		29,400
Investment in SUN	7,500	-	(w2) (7,500)	-
Investment in WIND	5,000	-	(w9) (5,000)	-
Goodwill	-	-	(w2) 1,000	1,000
Investment in associate	-	-	(W10b) 5,092.395	5,092.395
Current Assots				
Inventory	1 800	760	(w7a) 1 000	3 560
Trade receivables	2,450	980	(174) 1,000	3,430
Dividends receivable	300	-	(w1b) (300)	-
Bank and cash	450	50		500
	42,500	6,190		42,982.395
EQUITY AND LIABILITIES				
Capital and Reserves C1/4 ordinary shares	8 000	4 000	(w2) (4 000)	8 000
Retained earnings	28 300	4,000	(WZ) (4,000) (See w11)	24 242 395
rietained earnings				
Non Current Liabilities	3,500	800	(w7a&b) 3,150	7,450
Current Liabilities				
Trade payables	1 900	530		2 430
Other payables	800	60		860
Proposed dividends		-		-
-	42,500	6,190		42,982.395

Format & presentation 2 Marks

## Workings:

 Reverse dividends proposed by SUN Ordinary dividend – as no legal obligation / entitlement until approved by the shareholders at the AGM in 2008, therefore no accrual required at 31st December 2007.

(2 Marks)	A\$1,500,000	A\$1,500,000	(a) SUN's books DR Dividends payable CR RE – post acquisition	(a)
(2 Marks)	€300,000	€300,000	(b) RECONNECT's books DR Investment income (& RE) CR Dividends receivable	(b)
	<b>€'000</b> 7,500	<b>A\$'000</b> 10,000	Acquisition of SUN (100% = subsidiary) Paid Fair value of net assets acquired: Share capital	Acc Pai Fai Sh
(5 Marks)	(6,000) 1,500 (500) 1,000	<u>    5,000</u> 15,000	RE – 14th June 2005 ER @ A\$2.5 Goodwill Impairment Carrying value at 31st December 2007	RE Go Imi Ca

#### Note

2.

With respect to SUN, the company's functional currency # presentation currency:

- RECONNECT's investment is based on the net worth of SUN;
- SUN's day to day operations are not dependent on RECONNECT's currency; and
- Net investment will remain until business is liquidated or disposed.

The mechanics are:

- Income statement translated using average rate;
- Assets and liabilities translated using closing rate;
- Share capital and pre-acquisition reserves translated using historic/acquisition rate;
- Obtain reserves as balancing figure;
- Compare difference between opening net assets and closing net assets, with translated retained earnings, to obtain exchange difference;
- Exchange difference will arise from:
  - Retranslating the opening net assets at this year's closing rate,
  - Translating income statement at average rate and balance sheet at closing rate; and
- Exchange differences taken directly to reserves.

#### 3. Translate SUN's income statement using average rate

	A\$'000	ER	€'000
Revenue	28,200	4	7,050
Cost of sales	(17,000)	4	(4,250)
Gross profit	11,200	4	2,800
Operating expenses	(6,100)	4	(1,525)
Operation profit	5,100	4	1,275
Finance costs	(200)	4	(50)
Profit before tax	4,900	4	1,225
Income tax expense	(980)	4	(245)
Profit after tax	3,920	4	980

(5 Marks)

4.	Translate SUN's balance sheet as at 31st December 2007					
	ASSE	ETS	A\$ 000	ER	€ 000	
	Non	Current Assets				
	Prop	erty, plant and equipment	22,000	5	4,400	
	Curre	ent Assets				
	Inver	itory	3,800	5	760	
	Trade	e receivables	4,900	5	980	
	Darik	and cash	30,950	5	6,190	
	EQU	ITY AND LIABILITIES				
	Capit	al and Reserves				
	A\$1 (	ordinary shares	10,000	2.5	4,000	
	Retai	ined earnings – pre-acquisition	5,000 (incl. wite) 0,000	2.5 Bolonoo	2,000	
	Retai	ned earnings - post-acquisition	(Incl. w1a) 9,000	Balance	(1,200)	
	Non	Current Liabilities	4,000	5	800	
	Curre	ent Liabilities				
	Trade	e payables	2,650	5	530	
	Othe	r payables	300	5	60	
					0,190	
					(5 Marks)	
5.	Calcu	ulate exchange difference				
	(-)		A\$'000	ER	€'000	
	(a)	Opening net assets @ OR (2006 CR)	10.000	2.5	4 000	
		RE – pre-acquisition	5 000	2.5	2,000	
		RE – post-acquisition: A\$(12,500 +		210		
		(w1a) 1,500 - pre-acqn 5,000 - PAT 3,920)	)5,080	Balance	693.33	
		<b>a</b>	20,080	3	6,693.33	
		Opening net assets @ CR	20,080	5	4,016.00	
					2,677.33	
					(3 Marks)	
	(b)	Translate current year RE (IS @ AR v BS	@ CR			
		PAT – per IS	3,920	4	980	
		PAT – per BS	3,920	5	784	
					196	
					(2 Marks)	
	(C)	Total FX loss		= (a) + (b)	2,873.33	
					(1 Mark)	
6.	Move	ement on SUN's RE			€'000	
	Oper	ning RE on 1st January 2007	(see w5a)		693.33	
	PAT -	– 2007 (see w5b)			980	
	FX lo	es (see w5c)			(2,873.33)	
	CIOSI	ng HE on 31st December 2007			(1,200)	
					(3 Marks)	

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# 7. Sale of inventory by RECONNECT

(a)

(b)

8.

Substance of transaction is that of a loan against inventory i.e. not a sale and repurchase

			(Memo Only)	
	2007	2008	2009	2010
Income Statement	€	€	€	€
Revenue	-	-	-	6,000,000
Cost of sales	-	-	-	(1,000,000)
Gross profit	-	-	-	5,000,000
Interest (see below)	(150,000)	(157,500)	(165,375	(173,644)
Profit/(loss)	(150,000)	(157,50)	(165,375)	4,826,356
Balance Sheet				
Inventory	1,000,000	1,000,000	1,000,000	(trees sold & loan
-			r	epaid on 31/12/10)
Loan (including interest)	(3,150,000)	(3,307,500)	(3,472,875)	
		· · ·	· · ·	
	Opening Balance €	Interest	(5%) € CI	osing Balance €
2007	3,000,000	1	50,000	3,150,000
2008	3,150,000	1	57,500	3,307,500
2009	3.307.500	1	65.375	3.472.875
2010	3 472 875	-	73 644	3 646 519
2010	0,112,010		70,011	0,010,010
			€	€
DR Revenue		3.0	00 000	C C
CB Non Current Liabilities	s – Ioan	0,0	00,000	3 000 000
Of Non Ourfent Liabilitie.	5 - 10411			3,000,000
DB Inventory		1.0	00.000	
CB Cost of Sales		1,0	00,000	1 000 000
- To reverse initial entry				1,000,000
to reverse initial entry				(3 Marks)
			€	€
DB Income Statement – i	nterest	1	50 000	0
CB Non Current Liabilities	s – Ioan			150 000
- Interest charge for 2007				100,000
interest sharge for 2007				(3 Marks)
				(•
Note: <b>RECONNECT</b> has	the option of capitalising	inventory-related	interest costs	
		,		
Sales refunds – WIND				
				€
Total returns for 2007		5% x €7.800.000	)	390.000
Returns already accounte	d for in 2007	1% x €7,800,000	, )	(312,000)
Lineacounted for in 2007		$10/ x \in 7,000,000$	)	78,000
(of which EQ2/ will be par	apped and $EO^{0/}$ record	1 /0 X €7,000,000	)	78,000
(of which 50% will be set	apped and 50% resold)			
Soron: cost $= 50\%$ x 1%				20,000
Scrap. $cost = 50\% \times 1\%$				39,000
Resold: $\cos t = 50\% \times 1\%$	x (€7,800,000 x 30%)			11,700
				50,700
			-	-
		10	€	€
DK	WIND ·	- 15	50,700	
CR	WIND -	– BS		50,700

(4 Marks)

9.	Acqu	uisition of WIND on 1st July 2007 (30% = associate)	)		
	Paid		€'000	€'000	€' <b>000</b> 5.000
	Fair	value of net assets acquired:			3,000
	Ordi	nary share capital		5,000	
	RE a	at 1st January 2007 (€6,000,000 - €2,000,000)	0.000	4,000	
	PAI	- year ended 31st December 2007	2,000		
	Jaie		1.949.3		
			x 6/12	974.65	
				9,974.65	0.000.005
	Goo	dwill		@ 30%	2,992.395
	Less	simpairment			(200)
					1,807.605
					(5 Morko)
10.	Disc	losure of associate – WIND			
	(a)	Income statement (acquisition on 1st July 2007)			€'000
		PAT			1,949.3
				x 6/12	974.65
				× 200/	202 205
	Less	a goodwill impairment		X 30%	292.395
					92.395
					(4 Marks)
	(b)	Balance sheet			€'000
	(i)	Investment in associate			
		Net assets per draft balance sheet			11,000
		Less sales refunds (W8)			(50.7)
				x 30%	10,040.00
					3,284.79
		Add unimpaired goodwill			1,807.605
					3,032.033
					(4 Marks)
	(ii)	Consolidated reserves	aired goodwill	(w10a)	02 305
		Share of post acquisition retained profits less impa	alled goodwill	(wroa)	92.393
					(4 Marks)
11.	Con	solidated RE			€'000
	REC	CONNECT (per draft balance sheet)			28,300
	SUN	I – impairment of goodwill (w2)			(500)
	SUN	I – RE (w6)			(1,200)
	REC	ONNECT – sale of inventory (w7a)			(2,000)
	REC	CONNECT – loan interest (w7b)			(150)
	VVIIN				<u>92.395</u> 24,242.395
					(6 Marks)
					(

[Total : 65 Marks]

REPORT

Format & presentation 1 Mark Interpretation & evaluation 9 Marks Ratios 5 Marks Further information 5 marks

[Total : 20 Marks]

dd/mm/yy

The Board of Directors,

## Proposed acquisition of WATER

As requested, please find...

(a) Interpretation and evaluation of the financial performance and position of WATER

A certain amount of information can be gleaned from the information provided by simply comparing this year with last year. For example:

#### Income statement

• Revenue has increased by 4.84%, operating profit has increased by 8.97%, profit available for the shareholders increased by 17.29%. This indicates that the company has kept tight control over expenses.

#### Cash flow statement

- Although there was considerable investment this year in property, plant and equipment, this was covered by the income generated during the year.
- The company continued to purchase its own shares, which was mostly covered by bank borrowing.

### Balance sheet

- The cash balance has declined a little, although the cash flow statement shows that helped to pay this year's dividends.
- The current liabilities have not increased by much and current assets have increased, largely due to increased inventories held (this also helps to explain the increase in profit).
- Property, plant and equipment have increased (as per the cash flow statement).
- Financial liabilities have increased by nearly 20% (as per the cash flow statement).
- Shareholders' funds have decreased mainly due to the decrease in retained earnings. This seems to be because of the continued purchase of own shares.

#### Ratios

Using the pyramid structure of the six key ratios to analyse the financial statements for 2007 and 2006 (see Appendix One), it is possible to make some more observations:

- Operating return on equity: this has increase by approximately 11% for two 2 reasons: equity has decreased and also profits have increased.
- Financial leverage multiplier: this has increased by approximately 22\_% for 2 reasons: the asset base (and therefore the capital employed) has increased and equity has decreased.
- ROCE: this has increased by 0.39%.
- Asset turnover: this has stayed constant.
- Gross profit / net profit margin: these have both increased slightly.

Overall, it is fair at this point to say that WATER is performing better this year than last year, although the company appears to be very dependent on 'other people's money', especially bank loans.

(9 Marks)

(b) Additional information that should be obtained before deciding whether to proceed with the acquisition of WATER.

For example:

A comprehensive examination of the full financial statements of WATER for the past three to five years, including the supporting notes, is essential in order to provide further information on the issues raised above.

In order to assess how well WATER is performing, it is necessary to compare the performance WATER against other similar companies in the industry. Moreover, it is important to ensure that the bases of ratios are identical.

Furthermore, projections for WATER and the industry should be obtained.

(4 Marks)

[Total : 20 Marks]

	2007		2006	
Return on Equity	91,100 / 172,600	52.78%	83,600 / 201,600	41.47%
Fin/Lev Multiplier	844,200 / 172,600	4.89 times	803,900 / 201,600	3.99 times
ROCE	91,100 / 844,200	10.79%	83,600 / 803,900	10.40%
Asset Turnover	888,500 / 844,200	1.05 times	847,500 / 803,900	1.05 times
Gross Profit Margin	126,300 / 888,500	14.22%	116,500 / 847,500	13.75%
Net Profit Margin	91,100 / 888,500	10.25%	83,600 / 847,500	9.86%
Current Ratio	49,900 / 129,500	0.39:1	44,800 / 128,900	0.35:1

# **APPENDIX ONE**

Pyramid of Ratios 2007:

	Operating return on equity (52.78%)	
x Financial leverage multiplier (4.89 times)	R.O.C.E. (10.79%) x	
Asset turnover (1.05 times)		Net profit margin (10.25%)
Pyramid of Ratios 2006:		
x Financial leverage multiplier (3.99 times)	R.O.C.E. (10.40%)	
Asset (1.05	Net profit marg (9.86%)	

jin (9.86%)

(5 Marks)

## **SOLUTION 3**

### (a) What is environmental accounting?

Environmental accounting can be defined as:

'The collection, analysis and assessment of environmental and financial performance data obtained from business management information systems, environmental management and financial accounting systems. The taking of corrective management action to reduce environmental impacts and costs plus, where appropriate, the external reporting of the environmental and financial benefits in verified corporate environmental reports or published annual reports and accounts'.

Environmental accounting can be considered either a subset or superset of accounting proper, because it aims to incorporate both economic and environmental information. It can operate at the company level or at the level of the national economy via links to the National Accounts of countries (among other things, the National Accounts produce the estimates of Gross Domestic Product otherwise known as GDP).

Environmental Accounting is a growing field that identifies resource use, measures and communicates costs of a company's or national economy actual or potential impact on the environment. Costs can include costs to clean up or remediate contaminated sites, environmental fines, penalties and taxes, purchase of pollution prevention technologies and waste management costs.

An environmental accounting system is composed of environmentally differentiated conventional accounting and ecological accounting. Environmentally differentiated accounting measures impacts of the natural environment on a company in monetary terms. Ecological accounting measures the impact a company has on the environment, but in physical units (e.g. kilograms of waste produced, kilojoules of energy consumed) rather than in monetary units.

(5 Marks)

# (b) Why might businesses consider adopting environmental accounting as part of their accounting system?

There are several reasons why businesses may consider adopting environmental accounting as part of their accounting system:

- Possible significant reduction or elimination of environmental costs;
- Environmental costs and benefits may be overlooked or hidden in overhead accounts;
- Possible revenue generation may offset environmental costs (e.g. transfer of pollution allowances);
- Improved environmental performance which may have a positive impact on human health and business success;
- May result in more accurate costing or pricing of products and more environmentally desired processes;
- Possible competitive advantages as customers may prefer environmentally friendly products and services; and
- Can support the development and running of an overall environmental management system, which may be required by regulation for some types of businesses.

Environmental accounting is a vital tool to assist in the management of environmental risks and operational costs. To ensure good corporate governance, a business should publish environmental accounting disclosures in corporate documents. As well as delivering environmental benefits, there are clear efficiency gains and cost savings that can be made from linking financial information with resource use.

(10 Marks)

[Total : 15 Marks]

[Total: 100 Marks]