



Management Accounting 2nd Year Examination

August 2012

Exam Paper, Solutions & Examiner's Report





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StudentBounty.com

Accounting Technicians Ireland

2nd Year Examination: August 2012 Paper : MANAGEMENT ACCOUNTING

24th August 2012 - 2.30 p.m. to 5.30 p.m.

INSTRUCTIONS TO CANDIDATES

In this examination paper the €/£ symbol may be understood and used by candidates in Northern Ireland to indicate the UK pound sterling and the €/£ symbol may be understood by candidates in the Republic of Ireland to indicate the Euro.

Answer FIVE questions.

Answer <u>all three</u> questions in Section A. Answer <u>any two</u> of the three questions in Section B.

If more than the required number of questions is answered, then only the requisite number, in the order filed, will be corrected.

Candidates should allocate their time carefully.

All figures should be labelled, as appropriate, e.g. €/£'s, units etc.

Answers should be illustrated with examples, where appropriate.

Question 1 begins on Page 2 overleaf.

SECTION A ANSWER ALL THREE QUESTIONS

QUESTION 1 (Compulsory)

StudentBounty.com The owner of Office Furniture Limited instructs you to prepare a monthly cash budget for the next three months. You are presented with the following budget information for September, October and November 2012:

	September	October	November
	€/£	€/£	€/£
Sales	590,000	650,000	750,000
Production costs	300,000	350,000	420,000
Sales & Administration expenses	150,000	170,000	200,000
Capital expenditure	0	0	120,000

- The company expects 10% of sales revenue to be cash sales and in the current climate that a 5% allowance for receivables will be required.
- 60% of sales revenue is expected to be collected in full the month following the sale and the remainder the following month.
- Depreciation and insurance costs combined represent €/£60,000 of the estimated monthly production costs per month.
- The annual insurance premium of €/£384,000 is paid in September.
- 80% of the remainder of production costs are expected to be paid in the month in which they are incurred and the balance in the following month.
- Current assets at the 1st September include a bank balance of €/£55,000 and accounts receivable (net of provisions) of $\notin/\pounds 611,135$ ($\notin/\pounds 459,135$ from August sales and $\notin/\pounds 152,000$ from July sales).
- Current liabilities at the 1st September include a short term loan of $\notin/\pounds100,000$, which is repayable together with a premium of 2% in October, and €/£60,000 of accounts payable incurred in August for production costs.
- All selling and administrative expenses are paid in cash in the period they are incurred.
- It is expected that €/£35,000 of dividends will be paid to Shareholders in September. Dividends of €/£8,000 on investments held will be received in October.

Requirement:

(a) Prepare a monthly cash budget and supporting schedules for September, October and November 2012.

14 Marks

(b) Calculate the Receivables and Payables figure to be included in the projected Statement of Financial Position at 30 November 2012.

2 Marks

(c) On the basis of the cash budget prepared, what recommendations should be made to the company?

> <u>4</u> Marks Total 20 Marks

QUESTION 2 (Compulsory)

StudentBounts.com Davisfield Ltd. produces agricultural machinery parts and has classified the production process into two sections - Assembly and Finishing, which are supported by the Service Departments - Administration, Stores and Quality Control.

	Allocated overhead costs €/£	No. of Employees
Production Departments		
Assembly	35,000	20
Finishing	44,000	15
Service Departments		
Administration	70,000	10
Stores	8,000	2
Quality Control	8,000	3

- During the year, 50,000 machine hours were worked in the Assembly Dept. and 20,000 direct labour hours (at a cost of $\notin/\pounds 12$ per hour) were worked in the Finishing Dept.
- Stores received 1,500 requisitions from Assembly and 1,000 from Finishing.
- Quality Control carried out 2,000 chargeable hours for Assembly and 1,000 for Finishing.
- One special piece of equipment, FARM100, was produced during the year. It took 100 machine hours of Assembly time and 55 direct labour hours in the finishing dept. Direct costs were €/£650.

Requirement:

- (a) Calculate an appropriate absorption rate for: (i) Assembly Dept. (ii) Finishing Dept.
- (b) Calculate:
 - (i) The total factory cost of the special equipment, FARM100.
 - (ii) A sales price for FARM100 based on a 20% margin.

6 Marks

10 Marks

(c) Discuss the relevance of absorption costing where there are a high level of service costs.

<u>4</u> Marks Total <u>20</u> Marks

QUESTION 3 (Compulsory)

StudentBounty.com VB Ltd. manufactures and sells a single item of farm machinery, which is distributed through network, at a sales price of €/£1,250 per item. The budgeted sales for the 2012 year are 36,000 units, which represents 60% of the firm's capacity. The following production information has been provided:

		€/£
Direct Materials		17,820,000
Direct Labour		1,980,000
Production Overhead	- Fixed	12,740,000
	- Variable	1,226,000
Sales/Distribution Overhead	- Fixed	2,110,000
	- Variable	214,000

Requirement:

(a) Calculate the breakeven cost in units and sales revenue	
	4 Marks

(b) Define and calculate the margin of safety, expressed in % terms.

4 Marks

(c) The Sales Director proposes to expand to 80% capacity by reducing the sales price by 10% and spending an additional \notin /£3,000,000 on advertising. Calculate the impact of this proposal on breakeven, margin of safety and profitability and advise management whether this proposal should be adopted.

8 Marks

(d) Outline the limitations of using the analysis outlined in part (c) above in a decision making context.

<u>4 Marks</u> Total <u>20</u> Marks

Management Accounting

August 2012

SECTION B ANSWER TWO OUT OF THE FOLLOWING THREE QUESTIONS

QUESTION 4

StudentBounty.com Pres Ltd has provided the following standard costing information for the month of April 2012:

Sales	Budget/Standard 2,500 x €/£100	<i>Actual</i> 2,600 X €/£108
Materials	5kg per unit	14,000kg
Materials price	€/£9 per kg	€/£128,800
Labour hours	2 hours per unit	5200 hours
Labour rate	€/£12/ hour	€/£11.75/hour

Requirement

(a) Prepare a statement of budget, actual and flexed gross profit for the month of April 2012.

5 Marks

12 Marks

- (b) Prepare a statement identifying all relevant variances required to reconcile actual with budgeted profit.
- (c) Discuss possible reasons for material variances reported in April 2012 for Pres Ltd.

<u>3 Marks</u> Total<u>20</u> Marks

QUESTION 5

The Sales Director has recently attended a course entitled 'Finance for Non-Accounting Managers'. He wants to understand more about a number of management accounting terms that he feels may be relevant to him. He asks you to prepare a memorandum explaining and providing examples of the following:

- Attainable Standard;
- Zero Based Budgeting;

;

- Opportunity Costs;
- Batch Costing
- Equivalent Units.

Total <u>20</u> Marks

QUESTION 6

StudentBounty.com Dunning Limited has recently introduced at Activity Based Costing System and has provided the following details for the month of January:-

Cost Pool	Overhead Cost
	€/£
Parts	10,000
Maintenance	18,000
Stores	10,000
Administration	2,000

You have ascertained the following activity information:-

Number of employees	40
Total number of parts	500
Number of materials requisitions	20
Maintenance hours	600

During the month, 500 units of Product Y were produced. This production run required 100 parts and 150 maintenance hours; 5 material requisitions were made and 10 employees worked on the units.

Requirement

(a) Using Activity Based Costing, calculate the total amount of overhead absorbed by each unit of Product Y.

10 Marks

(b) Discuss THREE different types of controls and explain how activity based costing assists in the control of costs?

> <u>10</u> Marks Total 20 Marks

StudentBounts.com 2nd Year Examination: August 2012

Management Accounting

Suggested Solutions

Students please note: These are suggested solutions only; alternative answers may also be deemed to be correct and will be marked on their own merits.

Solution 1-Office Furniture Limited

(a) - Cash Budget

	September	October	November	
	€/£	€/£	€/£	1 mark
INFLOWS				Coo holo
Receivables	517,090	554,345	613,650	<i>See below</i> 1 mark
Dividend		8,000		
Total Inflows	517,090	562,345	613,650	1 mark
OUTFLOWS				
Payables	252,000	280,000	346,000	1 mark
Insurance	384,000			1 mark
Sales & Admin	150,000	170,000	200,000	1 mark
Dividend	35,000			1 mark
Loan repayment		102,000		1 mark
Capital Expenditure			120,000	
Total Outflows	821,000	552,000	666,000	1 mark
Net cash position	(303,910)	10,345	(52,350)	
Opening Bank	55,000	(248,910)	(238,565)	1 mark
Closing Bank	(248,910)	(238,565)	(290,915)	

Marks Allocated

Workings

Rece	iva	hl	es
NELL	iva	υı	C3

Management	Accour	nting	August 2012		Stude	oer Warks
Workings						ocated
Receivables	S					22
		August	September	October	November	0
			€/£	€/£	€/£	3
Revenue		537,000 (1)	590,000	650,000	750,000	
Cash	10%	53,700	59,000	65,000	75,000	
Receivables		483,300	531,000	585,000	675,000	
	60%	322,200	354,000 (2)	390,000	450,000	
	30%	161,100	177,000 (3)	195,000	225,000	
Receivables			531,000	585,000	675,000	
Allowance	5%	24,165	26,550	29,250	33,750	2 marks
Opening Balar	nce					
revenue – July	7		152,000			
- August			306,090	153,045		
September re	venue		59,000	336,300(2)	168,150 (3)	
October rever	nue			65,000	370,500	
November rev	/enue				75,000	
Total receiva	bles		517,090	554,345	613,650	

(1) 459,135 = 85.5% of August Sales (-10% cash – 5% of balance (90%) = 4.5% of gross) Gross Sales - €/£537,000

(2) 60% of revenue less 5% allowance (x 95%) = €/£336,300

(3) 30% of revenue less 5% allowance (\times 95%) = \in /£168150

Debtors Control Account (not required by solution – for explanation purposes				
1/9 Opening Balance	611,135	Received – July a/cs	152,000	
September Sales	590,000	Received – August a/cs	306,090	
		Cash Received	59,000	
		Allowance	26,550	
		30/9 Closing Balance	657,495	
	1,201,135		1,201,135	
1/10 Opening Balance	657,495	Received – August a/cs	153,045	
October Sales	650,000	Received – Sept a/cs	336,300	
		Cash Received	65,000	
		Allowance	29,250	
		31/10 Closing Balance	723,900	
	1,307495		1,307495	
1/11 Opening Balance	723,900	Received – Sept a/cs	168,150	
November Sales	750,000	Received – October a/cs	370,500	
		Cash Received	75,000	
		Allowance	33,750	
		30/11 Closing Balance	826,500	
	1.473.900		1.473.900	

Debtors Control Account (not required by solution – for evaluation nurneses)

anagement Acco	ounting	Augu	ust 2012		Students	ver
		September €/£	October €/£	November €/£	o/s	SINT.
Production Costs		300,000	350,000	420,000		Om
Depreciation & Insurance		60,000	60,000	60,000		
Insurance		32,000	32,000	32,000		
Depreciation (non Cash)		28,000	28,000	28,000		
Balance		240,000	290,000	360,000		
Payable in month	80%	192,000	232,000	288,000		
Payable – 1 month in arrears	20%	60,000	48,000	58,000	72,000	
Payables		252,000	280,000	346,000		

Pavables

Insurance Premium – per annum €/£384,000 – per month - €/£32,000

Loan repayment 100,000 + 2% = 102,000

(b)

Receivables due at 30 November

25.5% x 650,000	165,750	
85.5% x 750,000	641,250	
	€/£807,000	1 mai

Payables due at 30 November

(420,000-60,000) x 20% €/£72,000

(c) Recommendations to the Company

Discuss projected cashflows with bank and seek temporary overdraft Seek financing option for Insurance premium payment Seek to extend short term loan arrangement Negotiate additional credit with suppliers Look at inventories and other assets to raise additional working capital Review credit control arrangements to minimise allowance (bad debt)

·k

1 mark

4 marks

Solution 2-Davisfield Ltd

Management Account	ting	August 20)12		Studente	per
	So	lution 2-Davi	sfield Ltd			CHINE
(a) Absorption Costing	Statement					.00.
	Produ	iction		Service		2
	Assembly (€/£)	Finishing (€/£)	Administ- ration	Stores (€/£)	Quality Control	1 mark
Allocated Overheads	35000	44000	(E/E) 70000	8000	8000	1 mark
Service Apportionment						
Administration	35000	26250	(70000)	3500	5250	2 marks
Quality Control	8835	4415			(13250)	1 mark
Stores	6900	4600		(11500)		1 mark
Total	85735	79265	-	-	-	
	50000	20000 direct				
	machine	labour hours				2 marks
	hours					
Absorption Rate	€/£1.71 per	€/£3.96 per				
	machine	direct labour				2 marks
	hour	hour				

Notes:

Allocated overhead – per question Administration apportionment based on employee numbers Quality Control apportionment based on no of chargeable hours Stores apportionment based on no .of requisitions

(b) FARM100 - Calculation of Cost

	€/£	
Direct Costs	650.00	1 mark
Direct Labour 55 x 12	660.00	1 mark
Overheads		
Assembly Dept 100 x 1.71	171.00	1 mark
Finishing Dept 55 x 3.96	217.80	1 mark
Total	1698.80	1 mark
Margin – 20%	424.70	1 mark
Sales Price	2123.50	1 mai K

(c)

Absorption costing provides more accurate product cost information by recognising that the costs of 2 marks overheads constitute an input into the production process. Where the overhead relates to service costs, it is important that the total cost is considered for accounting and decision making purposes.

2 marks

This will assist in improving decisions about resource utilisation and encourage the optimal use of services.

However, traditional absorption costing methods are usually calculated on a single volume based calculation, related to the most appropriate base (eg machine hours or direct labour hours) and this can lead to cost distortion as it can overlook the real underlying driver of cost. If there is a significant amount of overheads related to service costs, it may be more appropriate to look at activity based costing.

Management Accounting August 20)12 Still de line per	
Solution 3-V Ouestion 3 VB Ltd	/B Ltd	arks cated
		2
(a) Breakeven Point = Fixed Cost/Contrib	ution	COM
Fixed Costs - Production Overhead - Sales /Distribution Overhead	12,740,000 2,110,000 14,850,000	
ContributionSales(1250 x 36000)Direct Materials17,820,000Direct Labour1,980,000Variable Overhead (1,226k + 224k)1,440,000	Total <i>Per unit</i> €/£ €/£ 45,000,000 1250 495 55 21,240,000 40	
Contribution	23,760,000 660	1 mark
14,850,000/660 = 22,500 units		1 mark
Fixed Costs /CS Ratio CS Ratio 660/1250 = 0.528		
14,850,000/0.528 = €/£28,125,000		1 mark
(22,500 x 1250 = 28,125,000)		
(b) Margin of Safety		
The margin of safety (MOS) is the difference be breakeven level of sales. Hence, MOS is a measu the risk of not breaking even. It can be express	tween the level of budgeted sales and the ure of risk and the lower it is the higher ed in €/£, units or % terms	1 mark
<u>Budgeted sales revenue/units – Breakeven sale</u> Budgeted sales revenue/units	<u>s revenue/units</u> x 100	1 mark
$\frac{36000 - 22500}{36000} \times 100 = 37.5$	%	2 marks
<u>45,000,000 – 28,125,000</u> x 100 = 37.5% 45,000,000		

Management Accounting	August 2012	udente Ber
(c) Revised Scenario Calculations		Sunn
Revised Sales price 1250-125 = €	/£1125	Con
Revised Contribution Sales (1125 x 36000) Direct Materials Direct Labour	Per unit €/£ 1125 495 55 40	
Revised Contribution	535	1 mark
Revised Fixed Costs Fixed Costs - Production Overhead - Sales /Distribution Ov - Additional Advertising	12,740,000 verhead 2,110,000 g 3,000,000 17,850,000	
Revised BEP 17,850,000/535	= 33,365 units	1 mark
Increased Sales 36000/60 x 80 = 480	00	
Revised Margin of Safety <u>48000 – 33,365 x 100</u> 48000	= 30.49%	1 mark
Revised ProfitabilitySales(1125 x 48000)Direct Materials(495 x 48000)Direct Labour(55 x 48000)	€/£ 54,000,000 2,640,000	
Variable Overhead (40 x 48000) Revised Contribution Original contribution	1,920,000 28,320,000 25,680,000 23.760.000	1 mark
Increase in contribution	1,920,000	1 mark

Comparison of Overall results

	Original Results €/£	Revised Scenario €/£
Contribution	23,760,000	25,680,000
Fixed Overhead		
- Production	12,740,000	12,740,000
- Sales/Distribution	2,110,000	5,110,000
Profit	8,910,000	7,830,000

1 mark

Comment:

StudentBounty.com The Sales Director's proposal will bring additional contribution of €/£1.92m, but as this does not exceed the incremental overhead costs of \notin /£3m, overall profitability is reduced. There are also some additional risks associated with the proposal as the breakeven point increases by almost 11,000 units and the margin of safety is reduced.

Other factors should be considered including the opportunity costs for the additional capacity, overall business objectives, market share, competitors and existing customers.

(d)

Cost Volume Profit (CVP) analysis assumes that various factors (eg: costs and revenues) are broadly linear throughout the entire range. This is unlikely to be the case as in reality quantity discounts and production efficiencies may be achieved.	1 mark
Similarly, fixed costs are assumed to stay static and hence, CVP analysis is most useful for short term planning and decision making rather than long term.	1 mark
CVP can only be applied to a single product (as in this example) or in some cases to a single static mix of a group of products.	1 mark
Inventory holdings are not considered by CVP analysis and some aspects can be time- consuming to prepare.	1 mark

2 marks

Solution 4-Pres Ltd

					SE	
Management Accounting August 2012		· Cen	er			
Solution 4-Pres Ltd						et a
(a) Statemer	nt of Budgeted. A	Actual and Flexe	d Budget			2.6
()	Budget	Actual	Flexed	ł	Per Unit	3
Revenue	(€/£) 250.000	(€/£) 280.800	(€/±) 260.0	00	(t/t) 100	1 mark
Materials	112,500	128,800	117,0	00	45	1 mark
Labour	60,000	61,100	62,40	0	24	1 тагк
Cost of Revenue Gross Profit	172,500 77,500	189,900 90,900	179,40 80,60	00 0	69 31	3 marks
(b) Statement of	Profit Reconcili	ation				1 mark
Budgeted Profit					€/£77,500	1 mar k
(i) Sales Price Va	riance					
(Actual Sales Quar	ntity x Actual Price	e) – (Actual Sales	Quantity x Star	ndard Price)		
280.800	x 108.00)	- (2,60)	60.000 =		£/€20.800 fav	1 mark
(ii) Sales Volume	Variance		,		, ,	
(Actual Sales Quar	ntity x Standard p	orofit per unit) – (: ()	Standard Sales	s Quantity x St	tandard profit per unit)	
80,600	x 51)	- (/	77,500 x 51)	=	£/€3,100 fav	2 marks
(iii) Material pric	ce variance					
(Actual quantity o) (14 000 x	f inputs x Actual p · 9 20)	rice) – (Actual qu `	antity of input 14 000 x 9 00)	s x Standard I	PriceJ	
128,800	0	-	126,000	=	£/€2,800 adv	2 marks
(iv) Materials usa	age variance					
(Actual quantity o) (14 000 x	f inputs x Standar ' 9 00)	d price) – (Flexed -	<i>quantity x Sta</i> 5 x 2 600 x 9 0	ndard price)		
126,00	0 .	-	117,000 x 9.0	=	£/€9,000 adv	2 marks
(-) I - h						
(V) Labour rate v (Actual Hours of in	r ariance 1put x Actual Rate	e) – (Actual Hours	of input x Star	ndard rate)		
(5,200 x 1	- 11.75)	(5,200 x 1	2.00) _		f/£1 300 Fay	2 marks
01,100	-	02,400	-		L/ E1,500 Pav	
(vi) Labour effici (Actual Hours of in	ency variance aput x Standard re	ate) – (Standard h	ours required	for actual out	put x Standard rate)	
(5200 x 1	2.00) -	(2 x 2600 62 400	x 12.00)	_	f./€-	1 mark
Total Favourable	Veriences	02,400		-	C/C-	
l otal Favourable	e variances				£/€25,200	1 mark
Total Adverse Va	iriances				(£/€11,800)	
Actual Reported	Profit				€/£90,900	
(c) Both material varia	nces are adverse	impacting paget	velv on overall.	performance		1 mark
both material variances are adverse, impacting negatively on overall performance. The adverse materials price variance of f/f^2 800 may be attributable to changes in market conditions						
purchase of higher	quality goods, los	s of discount or ch	ange of suppli	er.	,	1 mark
The adverse materials usage variance of €/£9,000 could be as a result of poor materials handling, or poor stock control; lower skilled workers or production issues resulting in more wastage.				1 mark		

In both instances, an incorrect standard for price or quantity could also result in adverse variances.

Solution 5 MEMORANDUM

To:Sales DirectorFrom:Technician StudentRe:Accounting TerminologyDate:X/X/XX

Management accounting can provide information for managers to support decision making, planning and control within an organisation. You have been introduced to a number of management accounting theories and related terminology. This paper aims to provide further information and explanation of a number of key terms:

Attainable Standard

An attainable standard is a term used in standard costing which is based on the theory that the standard amount of work will be carried out efficiently under normal operating conditions. Some allowance is made for delay and inefficiency. If appropriately set, the attainable standard can provide a realistic but challenging target, which can act as a motivational tool for employees.

An example of an attainable standard:

Due to normal losses and expected downtime, the attainable standard cost of a widget is

		ϵ/E	
Direct Materials	2.5 kg @ €/£5	12.50	2 marks
Direct Labour	5 hours @ €/£10 50.0	0	
Production overhead	5 hours @ €/£4	20.00	
		82.50	
A widget, produced in p	erfect working conditio	s has the following costs (ideal stand	lard)
		€/£	
Direct Materials	2 kg @ €/£5	10.00	
Direct Labour	4 hours @ €/£10 40.0	0	
Production overhead	4 hours @ €/£4	16.00	
		66.00	

Zero based budgeting

Traditional budgeting approaches are not always clearly linked to strategy and are focused on financial aspects only. In this scenario, the annual budget uses an incremental approach whereby increases and decreases are applied to previous out-turn positions. In contrast, Zero based budgeting supports a more innovative approach, requiring managers to justify all costs as if the proposals were being considered for the first time. This approach is focused on opportunity costing and can eliminate efficiencies, however it can be quite complex and time-consuming to administer.

A definition of zero based budgeting provided by CIMA is 'a method of budgeting whereby all activities are re-evaluated each time a budget is formulated. Each functional budget starts with the assumption that the function does not exist and is at zero cost. Increments of cost are compared with increments of benefit, culminating in the planning of maximum benefit for a given budget cost'.

An example of zero based budgeting:

It is proposed to increase the maintenance budget by 20% to take account of the age of some equipment and other inflationary factors. Due to zero based budgeting analysis, it is identified that a particular machine, which costs \in /£8000 to maintain is only used once per quarter. An alternative outsourcing option has been identified and the budget adjusted accordingly.

Opportunity Costs

Opportunity costs are a key factor in decision-making. They can be defined as the value of the next best alternatives, or the cost of the alternatives foregone. Opportunity costing focuses on the alternatives and presents a different perspective on the economically relevant cost or avoidable costs.

2 marks

StudentBounty com

Solution 5 (Cont'd)

An example of opportunity cost:

StudentBounty.com A firm rents a unit at a cost of \notin 500 per week. They are considering using this space for a new project or subletting it for €/£600 per week..

The opportunity cost in this scenario is the ℓ fool/week rather than the actual cost incurred.

Batch Costing

A batch is a similar group of articles manufactured together and batch costing is a method similar to job 2 marks costing is normally used for costing purposes. Essentially, each batch is treated as a 'job' and is treated as the cost object in the exercise. Accordingly, costs are collected for each batch and divided by the number of items in the batch to give a unit cost

An example of batch costing:

A bakery produces a batch of 500 specialist bread and collates cost as follows:

		€/£
Materials:		60.00
Labour		25.00
Variable costs		20.00
Production overheads		45.00
Total batch cost	150.00	
Batch no.		500
Cost per item		0.30

Equivalent units

At the end of any given period of accounting, there are likely to be partly completed units in a 2 marks manufacturing process. Clearly, some costs incurred during the period are attributable to these units, as well as those which are fully complete. In order to spread cost equitably - the number of equivalent units is calculated. This is the equivalent number of fully complete units which the partly complete units represent.

An example of equivalent units:

Production of fully complete units during period	1000 units		
Work in progress	200 units – 50% complete		
Total equivalent production units	1000 + (200*50%)=1100 units		
Cost would be spread over the total equivalent production of 1100 units			

Maximum 20 marks

2 marks

2 marks

Solution 6 - Dunning Ltd

(a) Product Y - Overhead Absorption

Management Accounting	August 20	012	Studen per
	Solution 6 - Du	nning Ltd	arks sated
(a) Product Y – Overhead Absor	ption		12
Cost Pool	Workings	€/£	· OB
Parts	100 x 20	2.000	1 mark
Maintenance	150 hours x 30	4.500	1 mark
Stores	5 x 500	2.500	1 mark
Administration	10 x 50	500	1 mark
Total Overhead Absorbed		9,500	1 mark
Per unit		19	

Workings:

Schedule of Activity Based Overhead Absorption

	Parts	Maintenance	Stores	Administration	
Overhead Cost	10,000	18,000	10,000	2,000	
Cost driver	Total no.of parts	Maintenance hours	No. of requisitions	No.of employees	
Activity level	500	600	20	40	
ABC overhead recovery rate	€/£20 per part	€/£30 per Maintenance hour	€/£500 per requisition	€/£50 per employee	4 marks

1 mark

1 mark

2 marks

(b)

Control is one of the key features of management accounting and follows on from planning. Control can be exercised at an strategic and an operational level. Strategically, the business plan of an organisation will be reviewed in light of developments to assess if

objectives of the plan can be achieved. Operationally, the performance of the organisation is reviewed in the context of detailed plans(including budgets) so that corrective action can be taken if necessary. Effective controls is not practical without initial planning and planning without control is somewhat pointless.

Three different types of control include:

Action or behavioural controls – these involve observing the actions of individuals (eg: work studies: 2 marks quality and quantity controls) to inform corrective action

Personnel and cultural controls - support employees to be effective by establishing values, social norms and beliefs that can influence performance

Results and output controls - involve the collection, analysis and reporting of information about the outcomes of work effort. An organisation should have a system of management reporting that 2 marks produces control information in a specified format at regular intervals.

Activity Based Costing involves charging of overhead and service costs to cost pools and identifying the 1 mark main factor which drives costs in the respective pools and then calculating a cost driver rate to charge units with their share of pool costs.

Stiller Ot. Mars. Com Activity Based Costing improves the accuracy of costs, specifically overhead costs. By having accurate classification of costs and analysis of cost behaviour, managers can monitor performance more effectively and take remedial action if required. Activity Based Costing therefore contributes significantly to results and output controls, discussed above. Activity Based Costing can provide a better understanding of overheads and supports performance

management activities, which can motivate individuals or teams and therefore can influence personnel and cultural controls

Activity based costing has a **focus on activities** which drive costs and this in turn may assist managers in identifying activities which do not add value or processes which could be re-engineered to produce more effective results. Hence activity based costing can have behavioural implications resulting in action or behavioural controls.

Maximum 20 marks

1 mark

1 mark

StudentBounty.com 2nd Year Examination: August 2012

Management Accounting

Examiner's Report

Statistical Analysis – By Question							
Question No.	1	2	3	4	5	6	
Average Mark	54%	43%	31%	66%	48%	47%	
(%)							
Nos.	196	188	189	180	65	146	
Attempting							

Statistical Analysis - Overall				
Pass Rate	46%			
Average Mark	46%			
Range of Marks	Nos. of Students			
0-39	70			
40-49	39			
50-59	47			
60-69	35			
70 and over	10			
Total No. Sitting Exam	201			
Total Absent	28			
Total Approved Absent	8			
Total No. Applied for Exam	237			

General Comment

The overall performance at this session of the 2nd Year Management Accounting examination was below the standard of the summer session although higher than the corresponding session last year. The average mark recorded at this session was 46 and the Pass Rate was 46%.

The examination assessed all aspects of the syllabus and most candidates made an attempt at the required 5 questions. In terms of performance for individual questions the questions on cashflow projection calculations (Question 1) and variance analysis

(Question 4) attracted the highest marks, while performance in the break-even an question was particularly poor.

StudentBounty.com The format comprised of a compulsory section with three scenario based, largely computational type questions assessing the application of key concepts of the syllabus in practical situations; and a second section where the candidate was required to answer 2 out of 3 questions, which included a mainly narrative question together with other computational/theory questions.

While there were some very good scripts submitted, in general terms it was evident that more thorough revision of key syllabus areas would have benefitted candidates. Presentation and layout of solutions also varied from very good to poor.

Question 1

This question examined the area of budgetary planning and control through the preparation of a cash budget and some relevant discussion. Marks were lost for a variety of errors in relation to receivables, payables, the treatment of depreciation, insurance and other overheads. The capital expenditure payment and loan repayment was largely correct, but the treatment of dividend income varied. The most concerning issue was the fact that quite a number of scripts made reference to profits/losses rather than cashflows. Part (c) required recommendations to be suggested to the company and a number of candidates advised that they should close immediately rather than making suggestions to improve cashflows. Layout could have been improved in some instances.

Question 2

This question examined traditional overhead apportionment and absorption costing though many candidates approached it as an activity based costing question or did not carry out the service department apportionment and hence the average mark is relatively low. The job costing requirement of part (b) often saw the omission of direct labour costs, although most were able to correctly perform the margin pricing exercise. The short narrative section was answered satisfactorily.

Question 3

This question examined the marginal costing technique of breakeven analysis and required a number of calculations to be presented, as well as practical application in a decision making scenario. As in recent previous sessions, this syllabus area was not well answered. Many candidates produced an incorrect contribution or profit calculation as the solution to part (a) or calculated a breakeven point using a contribution-calculated as the sales value less variable overhead cost, ignoring materials and labour, or attempted to calculate the breakeven using fixed costs divided by the sales figure. In part (b) the margin of safety definition provided was in many

StudentBounty.com cases the breakeven definition. As a result of the obvious lack of know demonstrated in the basic calculations, inevitably the solutions to part (c) were equa poor, although the majority did identify that the new option would be less profitable and were awarded marks accordingly. Part (d) was a simple requirement which was specifically covered in the manual, but it was evident that appropriate revision had not been completed in some cases.

Question 4

It was encouraging that the variance analysis question was the best answered on the paper. Very few presented flexed budget figures as required in part (a) and errors in part (b) related to the impact of the flexed quantity in relation to Materials Usage and Labour Efficiency. Answers to part (c) was generally good although not all candidates attempted this part

Question 5

This was a straightforward narrative type question, with a similar format to previous sessions, requiring a briefing note on a number management accounting terms. This was the least popular question of the paper and while there were a small number of good answers, the majority of answers submitted were poor. Some definition were simply incorrect, invented or extremely brief. In order to score well, candidates needed to provide a clear definition, supported by a relevant example and the fact that this was not the case in most cases evidenced a lack of preparation.

Question 6

This question examined management accounting systems with the requirement of an activity based costing calculation and narrative section linking this to control theory, which is covered in the nature of management accounting. Most made a good attempt at the first requirement, although the standard of workings varied. The low overall mark results from the fact that many did not attempt the narrative section and some who did produced very poor answers to part (b).