

MANAGEMENT ACCOUNTING

FORMATION 2 EXAMINATION - AUGUST 2016

NOTES:

Section A - Questions 1 and 2 are compulsory. You have to answer Part A **or** Part B **only** of Question 2. Should you provide answers to both Part(s) A and B of Question 2, you must draw a clearly distinguishable line through the answer not to be marked. Otherwise, only the first answer to hand for this question will be marked. **Section B** - You are required to answer any **three** out of Questions 3 to 6. Should you provide answers to all of Questions 3 to 6, you must draw a clearly distinguishable line through the first three answers to hand for these four questions will be marked.

TIME ALLOWED:

3 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. **Please read each Question carefully.**

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 to pay particular attention to your communication skills and care must be taken regarding the format and literacy of your solutions. The marking system will take into account the content of your 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 attempted.

NB: PLEASE ENSURE TO ENCLOSE YOUR ANSWER SHEET TO QUESTION 3 IN THE ENVELOPE PROVIDED.

THE INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS IN IRELAND

MANAGEMENT ACCOUNTING

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Time allowed: 3 hours, plus 10 minutes to read the paper. Section A: Answer Question 1 and either Part A or Part B of Question 2.

Section B: You are required to answer any three out of Questions 3 to 6.

SECTION A - QUESTIONS 1 AND 2 ARE COMPULSORY

1. Cloudy Orchard Limited produces high quality organic cider for a niche market in the United Kingdom. Manufacturing consists of two main processes, Pressing and Fermentation. The Pressing process involves chopping, pulping and pressing of organic apples while the Fermentation process involves the addition of yeast and sugar to the mixture. Both processes incur conversion costs comprising labour and overhead expenses. Cloudy Orchard Limited has been producing cider for five years and based on experience expects a loss of 5% of inputs in the Pressing process, which is detected when production is 60% complete. In the Fermentation process the company expects a loss of 4% of inputs and this is detected when production is 80% complete. Losses in production from the Pressing process are sold as scrap to a local pig farmer for €0.02 per litre. Losses in production from the Fermentation process have no scrap value. The company uses the weighted average method to value production and inventory.

Details of the production processes for the month of August are provided below:

Pressing Opening inventory	Litres 25,000	% Complete	Value
- Materials	- ,	100	€6,007
- Conversion costs		50	€1,336
Input to process	325,000		
- Materials			€61,068
- Conversion costs			€22,964
Completed and transferred to Fermentation process	293,750		
Closing inventory	40,000		
- Materials		100	
- Conversion costs		25	
Fermentation	Litres	% Complete	Value
Opening inventory	36,000	•	
- Pressing process costs		100	€9,811
- Materials		100	€720
- Conversion costs		75	€274
Input to process			
 Transferred in from Pressing process 			
- Materials			€5,640
- Conversion costs			€4,406
Completed and transferred to Bottling	308,000		
Closing inventory	10,000		
 Pressing process costs 		100	
- Materials		100	
- Conversion costs		40	

REQUIREMENT:

(a) For the month of August prepare the following accounts, clearly showing all workings:

	(i) Pressing process account(ii) Fermentation process account(iii) Normal loss account	(20 marks)
(b)	The FIFO (first in first out) method can be used as an alternative method of process costing. differs from the weighted average method used by Cloudy Orchard Limited.	Describe how FIFO (3 marks)
(c)	Explain the term 'abnormal loss' and provide an example to illustrate your answer.	(2 marks) [Total: 25 Marks]

ANSWER PART (A) OR PART (B)

2.

(A) XX Glass Limited has been in operation for the past seven years and manufactures shower doors. Since its establishment the company has used a traditional overhead absorption costing system. However, the managing director, Peter Kenny, is considering making a change.

Over the past few years, Peter has streamlined the production process and reduced materials and labour costs significantly. He has now turned his attention to the company's overhead costs and when one of his suppliers mentioned an alternative overhead costing system, activity based costing (ABC), he asked for your assistance.

REQUIREMENT:

Prepare a report on activity based costing (ABC) for Peter Kenny, managing director of XX Glass Limited, that:

(a)	Explains the difference between traditional overhead absorption costing and ABC.	(3 marks)
(b)	Describes the operation of an ABC system.	(6 marks)

(c) Outlines the advantages and disadvantages of adopting ABC in XX Glass Limited. (5 marks)

Format and Presentation (1 mark)

[Total: 15 Marks]

(B) You are a trainee certified public accountant with the accounting firm of Hall & Lane who offer specialised services to small and medium sized enterprises (SMEs). Recently, the firm was approached for assistance by a number of managing directors of SMEs, who wish to recruit an accountant to their companies but who were unsure of the difference between a financial accountant and a management accountant. As a first step, the partner in charge at Hall & Lane has decided to give a short presentation to the managing directors to provide information and clarification about financial accounting and management accounting.

You have been asked by the partner in charge to prepare a briefing note for the presentation.

REQUIREMENT:

Draft a briefing note for the partner in charge that:

(a)	Suggests reasons why management accounting has become so important in the current business en	vironment. (4 marks)
(b)	Outlines the key differences between financial accounting and management accounting.	(4 marks)
(c)	Describes the role of the management accountant.	(6 marks)

Format and Presentation (1 mark)

[Total: 15 Marks]

SECTION B - ANSWER ANY THREE QUESTIONS.

3. The following multiple-choice question contains eight sections, each of which is followed by a choice of answers. Only one answer is correct in each case. Each question carries equal marks. On the answer sheet provided indicate for each question, which of the options you think is the correct answer. Marks will not be awarded where you select more than one answer for any question.

The following information relates to Question 1 and Question 2 below:

Carlton Limited uses a standard costing system to account for its only product. During July the company manufactured 48,000 units of product and had the following details:

Materials purchased and used (385,000 kgs)	€1,160,000
Direct labour (102,000 hours)	€410,000
Materials price variance	€5,000 A
Materials usage variance	€3,000 A
Labour rate variance	€2,000 A
Labour efficiency variance	€24,000 A

- 1. The standard quantity of materials per unit is:
 - (a) 5 kgs
 - (b) 6 kgs
 - (c) 7 kgs
 - (d) 8 kgs
- 2. The standard labour hours per unit are:
 - (a) 2 hours
 - (b) 2.5 hours
 - (c) 3 hours
 - (d) 4 hours
- 3. A semi-variable cost is a cost that:
 - (a) Increases in direct proportion to output.
 - (b) Increases throughout the year.
 - (c) Contains an element of both fixed and variable cost.
 - (d) Remains constant irrespective of the level of output.
- 4. Brite Limited, a contract cleaner, has recorded the following data relating to its activities:

Square metres cleaned	12,750	15,100
Overheads incurred	€73,950	€83,585

The overhead cost to clean 16,500 square metres would be:

- (a) €67,650
- (b) €86,750
- (c) €90,750
- (d) €89,325
- 5. A direct cost is best described as:
 - (a) A cost which needs to be apportioned to a cost centre.
 - (b) The highest proportion of the total cost of a product.
 - (c) Expenditure that may be identified with a specific cost unit.
 - (d) A cost which cannot be influenced by its budget holder.

6. Green Agri Engineers are preparing a quote for Job 699. Costs and other related information are shown below:

Raw materials Direct labour (@ €9 per hour)	€8,500 €14,400
Production overhead	€5.50 per direct labour hour
Administrative overhead	10% production cost
Profit margin	20% on selling price

Based on the information above the sales price for Job 699 would be:

€43,587.50 (a)

(b) €31.487.50

- (c) €39,625.00 (d)
- €46,493.33

The following information relates to Question 7 and Question 8 below:

Byways Limited reported an annual profit of €47,500 for the year ended 30 June 2016. The company uses absorption costing and produces one product, the Alpha, which has the following budgeted cost per unit:

	E
Direct material (1 kg @ €4 per kg)	4
Direct labour (4 hours @ €9 per hour)	36
Fixed overheads (4 hours @ €3 per hour)	12
	52

The normal level of activity for the company is 10,000 units per annum. However, actual production was 11,500 units. Actual fixed production overheads were as budgeted. Inventory levels at 1 July 2015 were 400 units and at 30 June 2016 were 600 units.

7. Based on the information provided, the profit for the year under variable (marginal) costing is:

- €49.900 (a)
- (b) €45,100
- (c) €50.700
- (d) €44,300
- For the year ended 30th June 2016 budgeted fixed production overheads and the under/over absorption was 8.

Budgeted fixed production overheads

- €120,000 (a) (b) €120,000 €138,000 (C)
- €138,000 (d)

Under/over absorption €18,000 over absorbed €18,000 under absorbed €18,000 over absorbed €18,000 under absorbed

4. Bonne Bia Limited is a newly formed company in the catering business founded by Kate and Paul Johnson. Kate and Paul have considerable experience in the food industry and saw an opportunity to establish a food/beverage business to service the tourist market during the four months from May to August. The business will be located in Wexford and permission has been obtained from Wexford County Council (WCC) to operate a food/beverage outlet near Curracloe beach. At present Kate and Paul are trying to decide between two possible food/beverage options. Pertinent information relating to each of the options is shown below. Initially, Kate and Paul intend to operate the outlet themselves without employing any other staff.

Option 1 – Crepes on the Beach

The food outlet would offer French style crepes with a variety of fillings.

Costings

Rather than having a range of selling prices a fixed price has been set for each crepe and this price is midway between the highest and lowest prices expected. Additionally, an average variable ingredient cost has been computed based on possible crepe fillings. Other relevant information is as follows:

Selling price per crepe (Budgeted sales 16,800 crepes)	€3.20
Average variable ingredient cost per crepe	€1.20
Other variable costs (disposable cutlery, packaging etc.)	20% selling price
Licence fee payable to WCC	€1,600
Rent of premises (including tables, chairs etc.) per month	€2,000
Insurance for four month period	€1,296

Option 2 – Coffee dreams

This beverage outlet would offer a range of beverages using the highest quality coffee beans.

Costings

Again a fixed price has been set for all coffee beverages and this price is midway between the highest and lowest prices expected. Additionally, an average variable ingredient cost has been computed based on milk, cream and other flavourings that may be used in making the various coffee drinks.

To create the coffees a special barista machine is required. This machine may be rented from a well-known coffee company on a monthly basis. The monthly rental is €1,006 plus €0.125 per cup of coffee produced. Other relevant information is as follows:

Selling price per cup of coffee (Budgeted sales 12,000 cups of coffee)	€3.50
Average variable ingredient cost per cup of coffee	€0.75
Other variable costs (disposable cups, spoons, etc.)	10% selling price
Licence fee payable to WCC	€1,600
Rent of premises (including tables, chairs etc.) per month	€2,000
Insurance for four month period	€1,296

REQUIREMENT:

(a) For EACH option:

(i)	Calculate the breakeven point in sales revenue.	(7 marks)
(ii)	If Bonne Bia Limited requires a profit of €17,500, how many units must be sold?	(5 marks)
(iii)	If actual sales achieved are equal to budgeted sales, compute the margin of safety in units and pe	ercentages. (6 marks)
Deee	new order de la contra de	(0

(b) Recommend which option Bonne Bia Limited should choose giving reasons for your answer. (2 marks)

5. Star Luggage Limited was established in 1990 and produces a variety of suitcases, cabin bags and holdalls for high street stores. The company has an efficient manufacturing facility comprising two production departments, Forming and Finishing, and two service departments, Stores and Machine Maintenance. While direct product costs are easily established and recorded, overhead costs attributable are more difficult to ascertain. Currently, the company uses a traditional absorption costing system to assign overheads to its products.

Budgeted cost information for the month of August is shown below:

	Total	Forming	Finishing	Stores	Machine Maintenance
	€	€	€	€	€
Direct labour	285,400	152,100	133,300		
Indirect labour	108,250	16,400	15,500	31,750	44,600
Power	62,800				
Equipment depreciation	54,000				
Equipment insurance	28,400				
Factory building repairs	17,800				
Factory security	38,750				
Marketing costs	18,150				
Factory rent	36,000				

Details relating to the company's budgeted activity for the month of August have also been provided:

	Total	Forming	Finishing	Stores	Machine Maintenance
Machine hours	26,500	21,200	5,300		
Direct labour hours	10,800	3,780	7,020		
Floor area (square metres)	1,600	800	300	400	100
Value of stores issues	180,000	162,000	18,000		
Kilowatt hours (% usage)	100	50	30	10	10
Value of equipment	€800,000	€400,000	€240,000	€80,000	€80,000

REQUIREMENT:

(a)	On the basis of the information provided above, prepare a schedule of the total budgeted overheads for each of
	the four departments, clearly showing the basis of apportionment.

(8 marks)

(3 marks)

- (b) Calculate the total budgeted overheads for both production departments after the service departments have been re-apportioned to them.
- (c) Compute pre-determined overhead absorption rates for each of the production departments. (4 marks)
- (d) At the end of August the following information was obtained:

Actual overhead costs Actual labour hours worked	Forming €248,000 4,250	Finishing €107,195 8,125
Actual machine hours recorded	20,950	5,750

Calculate the under or over absorbed overhead for the Forming and Finishing departments. (5 marks)

- 6. Joy Dunne loves to bake and has decided to start her own business in Westport. She has developed a delicious low calorie cupcake recipe and has created two varieties: Vanilla Cream and Chocolate Swirl. Joy hopes to commence production in September 2016 and has conducted some market research to assess the interest in, and demand for, her products. She has €5,000 of savings to use for the business, but will require additional bank funding to get the business started. Joy has prepared the following information relating to her business:
 - 1. Estimated sales demand

Cupcakes	September	October	November	December	January	February
Vanilla Cream	1,000	1,500	1,600	1,800	2,000	2,000
Chocolate Swirl	1,500	1,650	1,800	2,200	2,100	2,230

Joy has obtained orders from a hotel that specialises in arranging conferences and events. She also has orders from local restaurants and coffee shops. She estimates that 30% of her customers will pay cash immediately and has agreed to give one month's credit to the remaining customers.

- 2. The Vanilla Cream cupcakes will have a selling price of €1.80 each while the Chocolate Swirl cupcakes will sell for €1.95 each for the first three months but she intends to increase these prices by 10% after that time.
- 3. The cupcakes are made using the same basic ingredients but with a different topping. Joy has calculated that for each variety of cupcake, the basic ingredient cost is 20% of the selling price while the cost of the topping is 8% of the selling price. In line with the selling price increase of 10% noted at 2 above, Joy also expects an increase in the cost of ingredients of 10% after the first three months of operations.
- 4. In terms of paying for ingredients and toppings, Joy has negotiated that she will get one month's credit from the ingredient suppliers but must pay cash immediately for topping purchases.
- 5. Some months ago, Joy successfully applied for a grant from the Local Enterprise Board. She will receive €5,100 in total, to be paid in two equal instalments, September 2016 and January 2017.
- 6. To start production, Joy will need to purchase some kitchen equipment in September costing €4,500. The equipment is expected to last for four years and have no scrap value at the end of that time.
- 7. Joy has located suitable premises, which have been approved by the food safety authority, and which will cost €1,200 per month to rent. The landlord requires one month's rent as a deposit, and this must be paid with the first month's rent.
- 8. Other operating costs including power, packaging, insurance, administration expenses and depreciation of kitchen equipment are expected to be €4,005 for the year. Additionally, Joy will employ two staff in the business and will pay wages of €1,320 each per month. The relevant costs are paid in the month in which they are incurred.

REQUIREMENT:

(a) Prepare a cash budget for Joy Dunne's business, on a monthly basis, for the six month period commencing 1 September 2016, clearly showing the closing cash balance at the end of each month.

(16 marks)

(b) Explain Zero Based Budgeting (ZBB) and outline TWO benefits of ZBB over traditional budgeting methods.

(4 marks)

[Total: 20 Marks]

END OF PAPER

SUGGESTED SOLUTIONS

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SOLUTION 1

Workings					
Pressing process					
Inputs	Total	Equival	lent units		
	Physical	Materials	Conversion costs		
	Units				
	Litres	Litres	Litres		
Opening WIP	25,000				
Materials input	325,000				
	350,000				
Outputs					
	40.000	40.000	10.000		
Closing WIP	40,000	40,000	10,000		
Normal loss 5% of materials input	16,250	0	0		
Transferred to Cooking process	293,750	293,750	293,750		
	350,000	333,750	303,750		
Costs					
Value of opening work in progress	€7,343	€6,007	€1,336		
Total costs incurred during month	€84,032	€61,068	€22,964		
Less scrap value of losses €0.02 per litre	-€325	-€325	,		
Total costs to be allocated	€91,050	€66,750	€24,300		
	,000	,			
Cost per equivalent unit	-	€0.200	€0.080	€0.280	
cost per equivalent unit	=	£0.200	£0.080	£0.280	(2,,1,.)
					(3 marks)
Allocation of costs					
Valuation of output transferred to Fermentation pr		Litres x €0.28 per Litre	=	€82,250	
Valuation of closing WIP (40,000 Litres) 25% comple	ete				
Materials: 40,000 Litres x €0.20 =				€8,000.00	
Conversion costs: 40,000 Litres x 25% x €0.080 =			_	€800.00	
			_	€8,800.00	
					(2.5 marks)
			-	€91,050.00	
				£91,050.00	
Fermentation process			=	€91,030.00	
Fermentation process	Total	Equival	= lent units	€91,030.00	
Fermentation process Inputs	Total Physical	-	= lent units Material costs		
	Physical	Pressing process	= lent units Material costs	Conversion costs	
	Physical Units	Pressing process costs	Material costs	Conversion costs	
Inputs	Physical Units Litres	Pressing process			
Inputs Opening WIP	Physical Units Litres 36,000	Pressing process costs	Material costs	Conversion costs	
Inputs	Physical Units Litres 36,000 293,750	Pressing process costs	Material costs	Conversion costs	
Inputs Opening WIP Materials input from Mixing process	Physical Units Litres 36,000	Pressing process costs	Material costs	Conversion costs	
Inputs Opening WIP Materials input from Mixing process Outputs	Physical Units Litres 36,000 293,750 329,750	Pressing process costs Litres	Material costs Litres	Conversion costs Litres	
Inputs Opening WIP Materials input from Mixing process	Physical Units 1itres 36,000 293,750 329,750 10,000	Pressing process costs Litres 10,000	Material costs Litres 10000	Conversion costs Litres 4,000	
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Inputs Opening WIP Materials input from Mixing process Outputs Closing WIP	Physical Units 1itres 36,000 293,750 329,750 10,000	Pressing process costs Litres 10,000	Material costs Litres 10000	Conversion costs Litres 4,000	
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Inputs Opening WIP Materials input from Mixing process Outputs Closing WIP Normal loss 4% of materials input Completed and transferred Opening WIP Pressing process costs transferred in	Physical Units Litres 36,000 293,750 329,750 10,000 11,750 308,000 329,750 €10,805 €82,250	Pressing process costs Litres 10,000 0 308,000 318,000	Material costs Litres 10000 0 308,000 318,000 €720	Conversion costs Litres 4,000 0 308,000 312,000 €274	
Inputs Opening WIP Materials input from Mixing process Outputs Closing WIP Normal loss 4% of materials input Completed and transferred Opening WIP Pressing process costs transferred in Costs incurred	Physical Units Litres 36,000 293,750 329,750 10,000 11,750 308,000 329,750 €10,805 €82,250 €10,046	Pressing process costs Litres 10,000 0 308,000 318,000 €9,811 €82,250	Material costs Litres 10000 0 308,000 318,000 €720 €5,640	Conversion costs Litres 4,000 0 308,000 312,000 €274 €4,406	
Inputs Opening WIP Materials input from Mixing process Outputs Closing WIP Normal loss 4% of materials input Completed and transferred Opening WIP Pressing process costs transferred in	Physical Units Litres 36,000 293,750 329,750 10,000 11,750 308,000 329,750 €10,805 €82,250	Pressing process costs Litres 10,000 0 308,000 318,000 €9,811	Material costs Litres 10000 0 308,000 318,000 €720	Conversion costs Litres 4,000 0 308,000 312,000 €274	
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Inputs Inputs Opening WIP Materials input from Mixing process Outputs Closing WIP Normal loss 4% of materials input Completed and transferred Opening WIP Pressing process costs transferred in Costs incurred Total costs to be allocated Cost per equivalent unit Valuation of finished output transferred: 308,000 Li	Physical Units Litres 36,000 293,750 329,750 10,000 11,750 308,000 329,750 €10,805 €82,250 €10,046 €103,101	Pressing process costs Litres 10,000 0 308,000 318,000 €9,811 €82,250 €92,061 €92,061	Material costs Litres 10000 0 308,000 318,000 €720 €5,640 €6,360	Conversion costs Litres 4,000 0 308,000 312,000 €274 €4,406 €4,680	
Inputs Opening WIP Materials input from Mixing process Outputs Closing WIP Normal loss 4% of materials input Completed and transferred Opening WIP Pressing process costs transferred in Costs incurred Total costs to be allocated Cost per equivalent unit	Physical Units Litres 36,000 293,750 329,750 10,000 11,750 308,000 329,750 €10,805 €82,250 €10,046 €103,101	Pressing process costs Litres 10,000 0 308,000 318,000 €9,811 €82,250 €92,061 €92,061	Material costs Litres 10000 0 308,000 318,000 €720 €5,640 €6,360	Conversion costs Litres 4,000 0 308,000 312,000 €274 €4,406 €4,680 €0.0150	
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Inputs Opening WIP Materials input from Mixing process Outputs Closing WIP Normal loss 4% of materials input Completed and transferred Opening WIP Pressing process costs transferred in Costs incurred Total costs to be allocated Cost per equivalent unit Valuation of finished output transferred: 308,000 Li Valuation of closing WIP (10,000 Litres 40% completed)	Physical Units Litres 36,000 293,750 329,750 10,000 11,750 308,000 329,750 €10,805 €82,250 €10,046 €103,101	Pressing process costs Litres 10,000 0 308,000 318,000 €9,811 €82,250 €92,061 €92,061	Material costs Litres 10000 0 308,000 318,000 €720 €5,640 €6,360	Conversion costs Litres 4,000 0 308,000 312,000 €274 €4,406 €4,680 €0.0150 €99,946.00	
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Inputs Opening WIP Materials input from Mixing process Outputs Closing WIP Normal loss 4% of materials input Completed and transferred Opening WIP Pressing process costs transferred in Costs incurred Total costs to be allocated Cost per equivalent unit Valuation of finished output transferred: 308,000 Lit Valuation of closing WIP (10,000 Litres x €0.2895 = Materials cost: 10,000 Litres x €0.02 =	Physical Units Litres 36,000 293,750 329,750 10,000 11,750 308,000 329,750 €10,805 €82,250 €10,046 €103,101	Pressing process costs Litres 10,000 0 308,000 318,000 €9,811 €82,250 €92,061 €92,061	Material costs Litres 10000 0 308,000 318,000 €720 €5,640 €6,360	Conversion costs Litres 4,000 0 308,000 312,000 €274 €4,406 €4,680 €0.0150 €99,946.00 €2,895.00 €20.00 €200.00 €200.00	(4.5 marks)
Inputs Opening WIP Materials input from Mixing process Outputs Closing WIP Normal loss 4% of materials input Completed and transferred Opening WIP Pressing process costs transferred in Costs incurred Total costs to be allocated Cost per equivalent unit Valuation of finished output transferred: 308,000 Lit Valuation of closing WIP (10,000 Litres x €0.2895 = Materials cost: 10,000 Litres x €0.02 =	Physical Units Litres 36,000 293,750 329,750 10,000 11,750 308,000 329,750 €10,805 €82,250 €10,046 €103,101	Pressing process costs Litres 10,000 0 308,000 318,000 €9,811 €82,250 €92,061 €92,061	Material costs Litres 10000 0 308,000 318,000 €720 €5,640 €6,360	Conversion costs Litres 4,000 0 308,000 312,000 €274 €4,406 €4,680 €0.0150 €99,946.00 €2,895.00 €20.00 €200.00 €200.00	

	Pressing	g process account		
Litres	€		Litres	€
25,000	7,343			
325,000		Transferred to Fermentation		
	61,068	Process	293,750	82,250
	22,964	Normal loss	16,250	325
		Closing WIP	40,000	8,800
350,000	91,375] [350,000	91,375
				(2.5 marks)
	Fermentation proce	ess account		
Litres	€		Litres	€
36,000		Completed & transferred	308,000	99,946
	9,811	Normal loss	11,750	0
	720			
	274	Closing WIP	10,000	3,155
293,750	82,250			
	5,640			
	4,406			
329,750	103,101		329,750	103,101
		-		(3 marks)
	Normal loss accoun	t		
Litres	€		Litres	€
16,250		Bank		325
				0
28,000	325		28,000	325
				(1.5 marks)
-	25,000 325,000 350,000 Litres 36,000 293,750 329,750 Litres 16,250 11,750	Litres € 25,000 7,343 325,000 61,068 22,964 22,964 350,000 91,375 Litres € 36,000 9,811 720 274 293,750 82,250 5,640 4,406 329,750 103,101 Normal loss accoun Litres € 16,250 325 11,750 0	Litres € 25,000 7,343 325,000 Fransferred to Fermentation Process Normal loss 22,964 Normal loss Closing WIP Completed & transferred 36,000 9,811 720 274 293,750 82,250 5,640 4,406 329,750 103,101	Litres € Litres Litres 25,000 7,343 Transferred to Fermentation 293,750 325,000 61,068 Process 293,750 22,964 Normal loss 16,250 Closing WIP 40,000 350,000 91,375 350,000 Fermentation process account Litres Litres € Completed & transferred 308,000 9,811 Normal loss 11,750 308,000 9,811 Normal loss 11,750 329,750 293,750 82,250 5,640 4,406 329,750 103,101 329,750 329,750 Normal loss account Litres Litres Litres 16,250 325 Bank Litres

(20 marks)

(b) Describe how FIFO method differs from Weighted Average method

FIFO differs from Weighted Average method in process costing as it is based on a different assumption regarding opening inventory:

- Weighted Average assumes that opening work in progress (WIP) inventory merges with units introduced during the current period and cannot be separately identified.
- The Weighted Average method calculates the cost per unit by totalling the cost of opening WIP inventory and the costs incurred during the period and dividing this total by the total number of equivalent units (i.e. number of units introduced during the period plus the equivalent number of units of closing WIP inventory).
- FIFO assumes that the opening WIP inventory in a process is the first group/batch of units to be completed in the current period and is separate from the units introduced and processed during the current period.
- FIFO charges the cost of opening WIP inventory separately to completed production and the cost per unit is based ONLY on the current period costs and production for the current period. Closing WIP inventory is assumed to be from the units introduced during the current period.

(3 marks)

(c) Explain 'abnormal loss' and give an example to illustrate your answer

An abnormal loss is also called an uncontrollable loss. It is a loss that is not expected to occur under efficient operating conditions.

It is not considered an inherent part of the production process because it arises from inefficiencies and is not included in the process costs.

An example would be incorrect mixing of ingredients or cutting of fabric.

(2 marks)

[Total: 25 marks]

SOLUTION 2 (A) REPORT To: Mr Peter Kenny, Managing Director, XX Glass Limited From: A Management Accountant Subject: Activity Based Costing Date: August 2016

Further to your request for assistance, the information regarding activity based costing (ABC) is provided below. Firstly, the report distinguishes between traditional overhead absorption costing and activity based costing, next it describes the operation of activity based costing and finally it presents the advantages and disadvantages of activity based costing.

Distinction between traditional overhead absorption costing and activity based costing Both traditional overhead absorption costing and activity based costing use a two stage allocation process and the main differences between the two costing methods occur in this process.

Traditional overhead absorption costing assigns overheads to production and service departments while activity based costing assigns overheads to each major activity.

Traditional overhead absorption costing traces overheads to products by applying overhead absorption rates calculated using a small number of allocation bases. Activity based costing identifies the drivers of cost for each activity and hence may use many different 'cost drivers' to allocate costs to products.

(3 marks)

The operation of activity based costing

Activity based costing involves a number of stages as follows:

- 1. The activities that cause overheads to be incurred are identified.
- 2. Costs are accumulated (or pooled) based on these activities.
- 3. The factors that cause the cost of each activity to arise (or to change) are selected. These are called 'cost drivers'. The total quantity (or volume) of each cost driver is established and each activity overhead cost is divided by this cost driver total to obtain an activity cost per cost driver.
- 4. Activity overheads are assigned to products based on the usage of the activity and the activity cost per cost driver.

(6 marks)

Advantages and disadvantages of activity based costing (ABC)

Advantages:

- 1. ABC will provide more realistic product costs for XX Glass Limited
- 2. ABC will allow more overheads to be traced to the products
- 3. ABC recognises that it is activities which cause cost not products and it is products which consume activities.
- 4. ABC focuses attention on the real nature of cost behaviour and will help XX Glass Limited to reduce costs and identify activities which do not add value to the products.
- 5. ABC recognises the complexity and diversity of modern production by the use of multiple cost drivers, many of which are transaction based rather than based on production volume.
- 6. ABC provides useful financial measures (e.g. Cost driver rates) and non-financial rates (e.g. Transaction volumes).

Disadvantages:

- 1. A full ABC system with numerous cost pools and multiple cost drivers is understandably more complex than traditional systems and will thus be more expensive for XX Glass Limited to develop and administer.
- 2. The company may experience difficulty in selecting appropriate cost drivers.
- 3. If there are overhead costs in XX Glass Limited that are common across activities there will be problems in deciding how to split these costs accurately between activities.

Should you require clarification or explanation in relation to the matters noted in this report, or any require further assistance, I will be happy to assist you.

Yours sincerely, A Management Accountant.

(5 marks) (Format and presentation 1 mark)

(B) BRIEFING NOTE

- (a) <u>Reasons why management accounting has become so important to a business</u> Management accounting has grown and become more important as a result of the following factors:
 - Global market with improvements in transportation and communication the market for customers has expanded and so too have company operations. Management accounting enables cost information to be provided and analysed across divisions, segments and countries to support overall activities of the company.
 - Changing cost structures in the past materials and labour comprised the highest product costs but this has changed, overheads are now more significant and need to be carefully monitored. Management accounting facilitates the monitoring and control of costs.
 - Increased competition it is now more important than ever to have accurate cost information as companies are competing not just in terms of product price but also other factors such as product quality and customer service. Access to accurate product cost information allows companies to focus attention away from pricing to other significant factors.
 - Internet opportunities the arrival of the internet has brought greater opportunity to buy and sell products and services more easily, and to monitor competitors and consumer trends. Management accounting may be implemented to gather cost information from all sources easily.
 - Changing customer needs customers have become more discerning and it is now more important to have pertinent information relating to customers and their profitability to a business. Management accounting allows companies to use cost information and techniques to obtain data on the cost of providing services to customers.
 - Changing product lifecycles due to intense competition and changing customer needs product lifecycles are becoming shorter. Companies need to be ready and able to introduce new products quickly and management accounting can facilitate this process by providing essential information for costing and decision making.
 - Any other relevant point

(4 marks)

(b) Key differences between financial accounting and management accounting.

There are a number of areas where management accounting differs from financial accounting:

Financial Accounting There is a legal requirement for companies to prepare financial statements	Management Accounting There is no legal requirement to prepare management accounts
Financial accounting has an external focus. It is designed to provide information to users who are external to an organisation.	Management accounting has an internal focus. It is designed to assist company managers in planning, controlling and decision-making activities.
Financial accounting focuses on the organisation as a whole.	Management accounting information may focus on many areas as required by the company.
Financial accounting information is presented in a format prescribed by law and by accounting standards.	The layout and substance of management accounting information is decided by company management.
Most financial accounting information is expressed in monetary terms	Management accounting information may include both monetary and non-monetary information.
Financial accounting provides information on what has happened in the past	Management accounting may be used for planning purposes and also for presenting information on past activities.
A detailed set of financial statements for a business is produced annually and in some cases less detailed financial information may be produced semi-annually.	Management accounting information may be prepared daily, monthly, weekly etc. as required.
	(4 marks)

(c) The role of the management accountant

Management accounting meets the needs of managers responsible for day to day operation of the business. As part of his/her role the management accountant provides information to facilitate a range of activities including:

Planning and controlling

To carry out their roles effectively the various managers in a business require information to assist them in planning and controlling the operations of the organisation. Planning involves translating goals and objectives into the specific activities and resources that are required to achieve these goals and objectives. The management accountant is involved in the preparation of both long term and short term plans. Budgets are short-term plans that are prepared in more detail than longer term plans. Control involves the process of ensuring that actual outcomes conform to planned or expected outcomes. Budgets may be used to support the controlling of activities by providing a measure against which actual performance may be compared.

Decision making

Managers also require information to assist them with routine and non-routine decision making. Routine decisions relate to issues such as assessing the profitability of different segments of an organisation in terms of products, services and customers. Non-routine decisions are made infrequently and may relate to strategic issues such as the introduction of new products or services. The information provided by the management accountant to support these decisions may be financial or non-financial in nature, depending on what best meets the needs of management. In many instances cost information accumulated by the management accountant is relied upon to inform decisions, and therefore it is critical that such information is of a high quality.

Performance measurement

The management accountant generates periodic reports, which compare actual performance to plan, and provides these to managers enabling them to determine if operations are proceeding as expected and to identify where corrective action may be required. These periodic reports also allow managerial performance to be evaluated and provide incentives for managers to try to achieve favourable results.

Allocation of costs between cost of goods sold and inventories

It is important to allocate costs to products as accurately as possible in order to establish the profitability of the business. The management accountant ensures that cost information is collected and correctly allocated to cost of sales or inventories as appropriate. The management accountant may use techniques such as activity based costing to allocate overheads to products or the first in first out (FIFO) method to value inventory.

(6 marks) (Format and presentation 1 mark)

[Total: 15 marks]

1. Answer (d) 8 kgs

Materials price variance = (SP – AP) x AQ -5,000 = (SP – AP) x 385,000 -5,000 = 385,000 SP – 1,160,000 SP = (1,160,000 - 5,000)/385,000 = 3

(AP x AQ = Actual material cost)

Materials usage variance = $(SQ - AQ) \times SP$ -3,000 = $(SQ - 385,000) \times 3$ -3,000 = 3SQ - 1,155,000SQ = (1,155,000 - 3,000)/3 = 384,000 kgs for 48,000 units = 8 kgs per unit

2. Answer (a) 2 hours

Labour variance = (SR – AR) x AH -2,000 = (SR – AR) x 102,000 -2,000 = 102,000 SR – 410,000 SP = (410,000 - 2,000)/102,000 = 4

(AR x AH = Actual labour cost)

Labour efficiency variance = $(SH - AH) \times SR$ -24,000 = $(SH - 102,000) \times 4$ -24,000 = 4SQ - 408,000SQ = (408,000 - 24,000)/4 = 96,000 hours for 48,000 units = 2 hours per unit

- 3. Answer (c) contains an element of both fixed and variable cost
- 4. Answer (d) €89,325

Squar	e metres cleaned	Overhead incurred
	15,100	€83,585
	12,750	€73,950
Difference	2,350	€9,635

Variable overhead = €9,635/2,350 = €4.10 per unit Fixed overhead = €83,585 - (15,100 x €4.10) = €21,675

Cost to clean 16,500 square metres = €21,675 + (16,500 x €4.10) = €89,325

5. Answer (c) expenditure that may be identified with a specific cost unit

6. Answer (a) €43,587.50

Job 699 Raw materials Direct Labour (€14,400/€9 = 1,600 hours) Production overhead (1,600 hours x €5.50) Total production cost Administrative overhead (10% x production cost) Total cost (80% selling price) Profit margin (20% selling price)	€ 8,500.00 14,400.00 8,800.00 <u>31,700.00</u> 3,170.00 <u>34,870.00</u> 8,717.50
	8,717.50
Selling price (100%)	43,587.50

7. Answer (b) €45,100

8.

Profit under absorption costing	€47,500
Adjustment for fixed production overhead in inventory (400 – 600) x €12	(€ 2,400)
Profit under variable (marginal) costing	€45,100
Answer (a) €120,000 and €18,000 over absorbed	

Budgeted (actual) fixed production overhead = 10,000 units x €12/unit	€120,000
Absorbed fixed production overhead = 11,500 units x €12/unit	€138,000
Over absorbed fixed production overhead	(€ 18,000)

(a)

(i) Break even point in sales revenue

	Crepes	Coffee
Fixed costs	€	€
Licence fee payable to WCC	1,600	1,600
Rent of premises	8,000	8,000
Insurance	1,296	1,296
Coffee machine cost	0	4,024
Total fixed costs	10,896	14,920
Sales revenue per unit	3.20	3.500
Less: variable costs		
Ingredient costs	1.20	0.750
Other variable costs	0.64	0.350
Coffee machine costs	0.00	0.125
Total variable cost per unit	1.84	1.225
Contribution per unit	1.36	2.275
Contribution margin ratio(CMR) = Contribution/Sales =	0.425	0.65
Break even point in sales revenue = <u>Total fixed costs</u> =	€25,637.65	€22,953.85
CMR		(7 marks)

(ii) If a profit of €17,500 is required how many crepes/coffees must be sold?

Target profit in units = <u>Total fixed costs + Target profit</u> Contribution per unit							
For Crepes = <u>€10,895 + €17,500</u> = €1.36	20,879.41 crepes						
For Coffees = <u>€14,920 + €17,500</u> = €2.275	14,250.55 coffees						
Proof:	Crepes €	Coffee €					
Total revenue [20,879 x €3.20]/(14,251 x €3.50)	66,812.80	49,878.50					
Less: total variable costs [20,879 x €1.84]/(14,251 x €1.225)	38,417.36	17,457.48					
Total contribution	28,395.44	32,421.03					
Less: total fixed costs (see (a) (i) above)	10,896.00	14,920.00					
Profit (approximately €17,500)	17,499.44	17,501.03					

(5 marks)

(iii) Margin of safety in units and percentages

Margin of safety in units = Budgeted sales (units) - Break Even sales (units)

Break Even Sales (units) = <u>Total fixed costs</u> Contribution per unit	=	Crepes <u>10,896</u> 1.36	Coffees <u>14,920</u> 2.28
Margin of safety in units =	=	8012	6,558
Crepes = 16,800 - 8	,012 =	8,788	
Coffee = 12,000 - 6	,558 =		5442
Margin of safety in percentages = <u>Budgeted sales - Break Even sales</u> x 100 Budgeted sales			
Crepes = <u>16,800 - 8,012</u> x 16,800		52.3%	
Crepes = 12 <u>,000 - 6,558</u> x			45.4%
12,00	U		(6 marks)

(b) Recommend which option Bonne Bia Limited should choose giving reasons for your answer

Bonne Bia Limited should choose Option 2 Coffee Dreams because while it does have higher fixed costs:

- It has a lower break even point
- It has a higher contribution to sales ratio
- Any other relevant point

(2 marks)

(a) Schedule of budgeted overheads

Ove	rhead expense	Basis	Total	Forming	Finishing	Stores	Machine Maintenance	
			€	€	€	€	€	
	uding direct labour uding marketing costs							
Pow Equi Equi Facto Facto	ect labour er pment depreciation pment insurance ory building repairs ory security ory rent	Given Kilowatt hours Value of machinery Value of machinery Floor area Floor area Floor area		16,400 31,400 27,000 14,200 8,900 19,375 18,000 135,275	15,500 18,840 16,200 8,520 3,338 7,266 6,750 76,414	31,750 6,280 5,400 2,840 4,450 9,688 9,000 69,408	44,600 6,280 5,400 2,840 1,113 2,422 2,250 64,905 (8 marks)	
(b)	Reapportionment o	f service departmen	its				(e mano)	
	- Stores	Value of stores issu	es	62,467	6,941	-69,408		
				197,742	83,355	0	64,905	
	- Maintenance	Machine hours		51,924 249,665	12,981 96.336	0	-64,905	
				249,000	90,330	0	0	
(c)	Calculation of prede				(3 marks)			
	Machine hours Labour hours			21,200	7,020			
	Overhead absorption	ı rate		€11.78	€13.72		(4 marks)	
(d)								
		F	orming €	Finishin	g €			
	Actual overhead cost		48,000	107,19	-			
Absorbed overhead cost - Forming : 20,950 x €11.78 - Finishing: 8,125 x €13.72 Under/(Over) absorbed overhead		.€11.78 24 €13.72	46,791 1,209	111,47 -4,28			(5 marks)	

Workings

(W1) Receipts from customers

	September	October	November	December	January	February
	€	€	€	€	€	€
Vanilla Cream	1,800	2,700	2,880	3,564	3,960	3,960
Chocolate Swirl	2,925	3,218.5	3,510	4,719	4,505	4,783
Total sales	4,725	5,918	6,390	8,283	8,465	8,743
Received:						
- Cash sales (30% of total)	1,418	1,775	1,917	2,485	2,540	2,623
- Due afer 1 month (70% of total)		3,308	4,143	4,473	5,798	5,925
Total receipts from customers	1,418	5,083	6,060	6,958	8,338	8,548

(W2) Purchases required

	September	October	November	December	January	February
	€	€	€	€		
Ingredients - 20% of sales	945	1,184	1,278	1,657	1,693	1,749
Payable in one month	070	945	1,184	1,278	1,657	1,693
Toppings - 8% of sales payable in cash		473	511	663	677	699
Total purchase payments	378	1,418	1,695	1,941	2,334	2,392

(W3) Administration costs

	€
Total annual administration costs	4,005
Less: depreciation (non-cash cost) €4,500/4 years	1,125
Total cash annual administration costs	2,880
Cash administration costs per month	240

(a) Cash Budget for the six months commencing 1st September 2016

		September	October	November	December	January	February
Cash receipts		€	€	€	€	€	€
County Enterprise Board Grant		2,550				2,550	
Total receipts from customers	(W1)	1,418	5,083	6,060	6,958	8,338	8,548
Total cash receipts		3,968	5,083	6,060	6,958	10,888	8,548
Cash payments							
Total payments to suppliers	(W2)	378	1,418	1,695	1,941	2,334	2,392
Wages costs	· /	2,640	2,640	2,640	2,640	2,640	2,640
Rent of premises		2,400	1,200	1,200	1,200	1,200	1,200
Administration costs	(W3)	240	240	240	240	240	240
Purchase of kitchen equipment		4,500					
Total cash payments		10,158	5,498	5,775	6,021	6,414	6,472
Net cash flow		-6,190	-415	285	937	4,474	2,076
Opening cash balance		5,000	-1,190	-1,605	-1,320	-383	4,091
Closing cash balance		-1,190	-1,605	-1,320	-383	4,091	6,167

(16 marks)

(b) Explain Zero Based Budgeting and outline TWO benefits of ZBB over traditional budgeting

Zero based budgeting implies a different approach from traditional budgeting. It requires activities to be reevaluated each time a budget is produced. Each functional budget is prepared on the basis that each cost element is justified as though the activities were occurring for the first time. No item of expenditure is included in the budget without full prior evaluation and justification. Zero based budgeting attempts to eliminate unnecessary expenditure being retained in budgets from year to year.

(2 marks)

Advantages of Zero Based Budgeting

Any TWO of the following:

- It eliminates unnecessary expenditure being retained in budgets
- It allows questions to be asked by managers before committing funds and not afterwards as in traditional budgeting
- It focuses attention on achieving value for money
- It leads to a greater understanding by management of the workings of the organisation
- If properly implemented, it should lead to a more efficient allocation of resources
- Any other relevant point

(2 marks)