

CERTIFIED PUBLIC ACCOUNTANT FOUNDATION LEVEL 2 EXAMINATIONS

F2.1: MANAGEMENT ACCOUNTING

DATE: WEDNESDAY 28, MAY 2025

MARKING GUIDE AND MODEL ANSWERS

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QUESTION ONE

Marking guide

Qn	Criteria	Marks
a	Three scope areas of management accounting	
	Award 0.5 marks for each listed point and 0.5 marks for clear explanation of each point	<u>3</u>
	Maximum marks awarded for part a	3
b		
i	Labour Efficiency Ratio	
	Award 1 mark for the correct formula and 2 marks for the answer	3
ii	Labour Capacity Utilization Ratio	
	Award 1 mark for the correct formula and 1 mark for a correct answer	2
iii	Labour Production Volume Ratio	
	Award 1 mark for a correct formula and 1 mark for a correct answer	2
	Maximum marks awarded for part b	7
С		
i	Sales Price Variance	
	Award 1 mark for a correct formula and 1 mark for a correct answer	2
ii	Material usage Variance	
	Award 1 mark for a correct formula and 1 mark for a correct answer	2
iii	Labour Efficiency Variance	
	Award 1 mark for a correct formula and 1 mark for a correct answer	2
iv	Variable Overhead Expenditure Variance	
	Award 1 mark for a correct formula and 1 mark for a correct answer	2
v	Fixed Overhead Volume Variance	
	Award 1 mark for a correct formula and 1 mark for a correct answer	2
	Maximum marks awarded for part c	<u>10</u>
	Total	<u>20</u>

MODEL ANSWERS

a) Explain three scope areas of management accounting

Scope of management accounting is very vast and includes various aspects of the business activities. Management accounting has its scope in the following fields or systems:

• Financial accounting

It is the foremost and indispensable part of accounting. In this system, business transactions of financial character are recorded in the proper subsidiary book. Posting of these transactions is done in ledger and from this the final accounts are prepared. Final accounts include profit and loss account and balance sheet. Profit and loss account represents the profit/loss earned during the accounting period and the balance sheet represents the financial position of a company as on a particular date. Financial accounting is the foundation

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from management accounting as it provides the necessary information for preparation of details and reports to be presented to the management.

Cost accounting

Cost accounting is one of the important branches of accounting. It ascertains the cost of producing a particular commodity and rendering of services cost of selling and distribution. It facilitates effective planning regarding commodities, proper decision-making and cost control. Some of the important tools of cost accounting are marginal costing, standard costing and budgetary control.

Revaluation accounting

Revaluation accounting ensures that capital is represented at its real value in the accounts and the profit has been calculated keeping this fact in mind. In other words, it assures that the assets are revalued according to the need and its effect has been brought into the accounts. Management accounting helps to ascertain the revalued figures of the assets.

Control accounting

Controlling means to measure the variation, if any, between actual and the standard results and taking corrective measures to remove that variation. Management accounting is the indispensable part of control accounting, budgetary control, inventory control, equality control are some of the important techniques of management accounting for control accounting.

• Statistical methods

Management accounting is concerned with presentation of accounting information in the most impressive and understandable manner. It makes use of graphs, charts, index numbers, pictorial presentation and other statistical methods in order to make the information more intelligible. For scientific analysis of financial statement and accounting information various statistical techniques such as mean, standard deviation, covariance, correlation, t-test, etc and used in management accounting.

• Interim reporting

Interim reporting means preparation of reports on monthly, quarterly and half-yearly basis. These reports include income statement, cash flow statement, funds flow statement, scrap reports etc.

• Internal audit

Internal audit means audit of various departments by the internal members of the organization. The techniques of management accounting can be used to judge the efficiency and economy of the organization. Ratio analysis and funds flow analysis are widely used to judge the efficiency of an organization.

Taxation

Tax planning and its management is an essential function of the management. It includes computation of income as per tax laws, filing of returns and payment of tax within stipulated time.

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- b) Calculate the following labour measurement ratios:
 - i. Labour Efficiency Ratio= standard hours for actual production* 100

Total actual hours worked

= <u>4*54000 *100</u>

240,000

=90%

ii. Labour Capacity Utilization Ratio = total actual hours worked*100

Total budgeted hours

=240,000*100

200,000

=120%

iii. Labour Production Volume Ratio / Activity Ratio

=standard hours for actual production*100

Total budgeted hours worked

=4*54,000*100

200,000

=108%

c)

i. Sales Price Variance= (budgeted selling price/unit-actual selling price/unit) *actual qty

Budgeted selling price/unit= 30,500 FRW

Actual selling price/unit= (296,000,000/9,250) = 32,000 FRW

Actual quantity= 9,250 units

SPV= (30,500-32,000) *9,250= 13,875,000 F

Material usage variance= (budgeted qty for actual production-actual qty) *budgeted price/kg

Budgeted gty for actual production= (9.250*8kg) = 74,000 kg

Actual qty= 92,500 kg

Budgeted price/kg= 1,200 FRW

MUV= (74,000-92,500) *1,200= 22,200,000 A

Labour Efficiency variance= (budgeted hours for actual production- actual hours) * budgeted rate per hour

Budgeted hours for actual production= (10 hrs*9,250 units) = 92,500 hrs

Actual hours worked = 95,000

Budgeted rate/hour= 800 Frw

LEV= (92,500-95,000) *800= 2,000,000A

Variable overhead expenditure variance= (budgeted rate/hr-actual rate/hr) *actual hours

Budgeted rate per hour = (4.88/10hr) = 480 Frw

Actual rate per hour = (40,000,000/95,000) = 421 Frw

Actual hours = 95,000 hours

VExp V = (480-421) *95,000 = 5,600,000 F

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Fixed overhead volume variance = (budgeted production units- actual production units) * budgeted fixed cost per unit

Budgeted production units = 10,000 Actual production units = 9,250 Budgeted fixed cos per unit = 2000 FVV= (10,000-9,250) *2,000 = 1,500,000 A

QUESTION TWO

MARKING GUIDE

Qn	Criteria	Marks
a	Control statement: Flexible budget	
	Sales: 1ward 0.5 marks for flexed budget and 0.5 for variance	1
	Total Variable cost: award 0.5 mark for flexed budget and 0.5 mark for variance and interpretation	1
	Fixed production: 0.5 mark for correct flexed and variance	0.5
	Finance cost: 0.5 for correct flexed and variance	0.5
	Marketing costs: Award 1 mark for correct flexed and 0.5 for variance and interpretation	1.5
	Administration costs: Award 1 mark for correct flexed and 0.5 for variance and interpretation	1.5
	Total cost: award 0.5 mark for correct answer	0.5
	Profit: award 0.5 mark for correct answer	0.5
	Maximum marks for part a	7
b	Preparation of cash budget	
	Award 1 mark for cash received from sales	1
	Award 1 mark for purchases	1
	Award 0.5 marks for total cash inflow	0.5
	Award 0.5 marks each for rent, salaries total cash outflow, surplus and closing cash balance	<u>2.5</u>
	Maximum marks for b	5
С	Differences between avoidable and unavoidable costs	
	Explanation of each point 1 mark and example 1 mark	<u>4</u>
	Maximum marks for part c	4
d	Cost estimation using regression analysis	
	Award 1 mark for correct summation of x, y, xy, x2	1
	Variable cost per unit: 0.5 for application of formula and 0.5 for correct answer	1
	Fixed cost: 0.5 for application of formula and 0.5 for correct answer	1
	Total cost equation award 1 mark for correct formula	1
	Maximum marks for part d	4
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Total	<u>20</u>

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a) control statement applying the concept of flexible budget for the year ended 31st December 2024. Clearly show the variance and interpret whether favorable or adverse.

NYUNGWE Manufacturers Ltd

Control Statement for the year ended 31st December, 2024

		Flexed Budget	Actual	Variance	Interpretation
Production / Sales Units		22,500	22,500		
		<u>FRW</u>	<u>FRW</u>	<u>FRW</u>	_
Sales	32,000,000 * 22,500/20,000 =	36,000,000	34,800,000	1,200,000	A
Costs:					
Direct Materials Cost	8,000,000 * 22,500/20,000 =	9,000,000	7,200,000	1,800,000	F
Direct Labour Cost	12,000,000 * 22,500/20,000 =	13,500,000	12,450,000	1,050,000	F
Variable Overhead Cost	2,500,000 * 22,500/20,000 =	2,812,500	1,790,000	1,022,500	F
Total Variable Costs		25,312,500	21,440,000	3,872,500	F
Fixed Production Costs	Does not change	1,650,000	1,800,000	150,000	A
Finance Costs	Does not change	830,000	710,000	120,000	F
Marketing Costs	W1	1,956,500	1,900,000	56,500	F
Administration Costs	W2	1,650,000	1,550,000	100,000	F
Total Cost		31,399,000	27,400,000	3,999,000	F
Profit		4,601,000	7,400,000	2,799,000	F

Workings:

W1) Marketing Costs

Marketing cost		1,820,000
Fixed (40%)	728,000	
Variable (60%)	1,092,000	
Flexed Variable =	(1,092,000 * 22,500/20,000)	1,228,500
Add: Fixed Cost		<u>728,000</u>
Total Flexed Marketing Cost		<u>1,956,500</u>

W2) Administration Costs

Administration Costs		1,600,000
Fixed (75%)	1,200,000	
Variable (25%)	400,000	
Flexed Variable =	400,000 * 22,500/20,000 =	450,000
Add: Fixed Cost		<u>1,200,000</u>
Total Flexed Marketing Cost		1,650,000

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b) Prepare Virunga Ltd Cash budget for the three months ended 31st March, 2025

		Jan	Feb	Mar	Total
<u>Cash Inflow</u>		<u>FRW</u>	<u>FRW</u>	<u>FRW</u>	<u>FRW</u>
Cash received from sales	W1	5,880,000	6,220,000	6,440,000	18,540,000
Loan received		4,000,000	4,000,000		<u>- 8,000,000</u>
Total cash inflow		9,880,000	10,220,000	6,440,000	26,540,000
<u>Cash Outflow</u>					
Purchases	W2	4,524,000	4,456,000	4,420,000	13,400,000
Rent		2,000,000	2,000,000	2,000,000	6,000,000
Salaries		2,300,000	2,300,000	2,300,000	6,900,000
Total cash outflow		8,824,000	8,756,000	8,720,000	26,300,000
Surplus / (Deficit)		1,056,000	1,464,000	-2,280,000	240,000
Add: Opening cash balance		3,000,000	4,056,000	5,520,000	-
Closing cash balance		<u>4,056,000</u>	<u>5,520,000</u>	3,240,000	-

W1: cash received from sales

		Nov, 2024	Dec, 2024	<u>Jan, 2025</u>	Feb, 2025	Mar, 2025
Sales		5,200,000	6,000,000	6,400,000	6,200,000	6,800,000
Cash sales	30%	1,560,000	1,800,000	1,920,000	1,860,000	2,040,000
One-month sales	40%	-	2,080,000	2,400,000	2,560,000	2,480,000
Two months sales	30%		<u> </u>	<u>1,560,000</u>	1,800,000	1,920,000
Total cash received		1,560,000	3,880,000	<u>5,880,000</u>	6,220,000	6,440,000

W2: cash paid for purchases

		Nov, 2024	Dec, 2024	Jan, 2025	Feb, 2025	Mar, 2025
Purchases		4,200,000	4,500,000	4,560,000	4,300,000	4,600,000
Cash purchases	40%	1,680,000	1,800,000	1,824,000	1,720,000	1,840,000
One-month purchases	60%		2,520,000	2,700,000	2,736,000	2,580,000
Total cash paid		<u>1,680,000</u>	4,320,000	4,524,000	4,456,000	4,420,000

c) Explain the difference between avoidable and unavoidable costs with examples in each case

Avoidable Costs

Costs that can be changed by change in the way the business operates. For example, by introducing internet banking salaries of the tellers in a bank can be avoided. Internet banking will eliminate the use of tellers in a bank.

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Unavoidable Costs

Costs that cannot be changed by change in the way the business operates. For example, by introducing internet banking the salary of the managing director will still be incurred. Internet banking will not replace the managing director.

d) Using Regression analysis method of cost estimation

X	Y	XY	X2
440	1,700	748,000	193,600
360	1,460	525,600	129,600
480	1,800	864,000	230,400
320	1,400	448,000	102,400
400	<u>1,640</u>	<u>656,000</u>	<u>160,000</u>
2,000	8,000	3,241,600	816,000

Find the variable cost per unit

$$b = \underline{(5*3,241,600)-92,000*8,000)}$$

$$(5*816,000) -(2,000)^2$$

$$= 2.6$$

Fixed cost

$$a = (8000/5)-2.6*(2,000/5)$$
$$= 560$$

Formulate the total cost equation

$$Y = 2.6X + 560$$

QUESTION THREE

MARKING GUIDE

Qn	Criteria	Marks
a		
i	Preparation of job cost card	
	Award 2 marks for Prime cost computation	2
	Award 2 marks for Marginal cost computation	2
	Award 2 marks for Absorption cost computation	2
	Award 2 marks for Job cost computation	2
	Award 2 marks for Job price computation	<u>2</u>
5	Maximum marks for part a) i	10
ii	Decision on customer offer price	

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Qn	Criteria	Marks
	Calculation of difference between price and cost	1
	Calculation of percentage	1
	Correct decision	1
	Maximum marks for part a) ii	3
iii	Difference between job costing and batch costing	
	Award 1 mark for clear explanation of job costing	1
	Award 1 mark for clear explanation of batch costing	<u>1</u>
	Maximum marks for part a) iii	2
b	Calculation of cost per unit under activity-based costing	
	Correct direct materials	0.5
	Correct direct labour	0.5
	Machine set up costs: Award 0.5 marks for A and 0.5 marks for B	1
	Procurement cost: Award 0.5 marks for A and 0.5 marks for B	1
	Electricity: Award 0.5 marks for A and 0.5 marks for B	1
	Overhead cost per unit: Award 0.5 marks for A and 0.5 marks for B	<u>1</u>
	Maximum marks for part b	<u>5</u>
	Total	<u>20</u>

a)

i) job cost card for job J005 showing the following; prime cost, marginal cost, absorption cost, job cost and job price $\frac{1}{2}$

		FRW	FRW
Timber	(13kgs * 900)	11,700	
Metal	18kgs * 1200)	21,600	33,300
Direct labour	(20hrs * 1,500)		<u>30,000</u>
Prime cost			63,300
Add: Variable overheads	(60% * 30,000)		18,000
Marginal costs			81,300
Add: Fixed production costs	795,000 / 30		<u>26,500</u>
Absorption costs			107,800
Add: Fixed selling & administration costs	(30% * 107,800)		32,340
Job cost			140,140
Add: Profit margin	(25%/75% * 140,140)		46,713
Job price			<u>186,853</u>

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ii) A customer has offered to buy the office furniture at FRW 160,000, should SMART Ltd accept to do the job without a compromise on the pricing model of the company

Customer Offer price		160,000
Difference (Job cost & customer price)		19,860
Percentage Profit	(19,860 / 186,853)	10.60%

Decision: Reject the customer request because the profit to be generated is only 10.6% of the job cost instead of 25% which is the practice.

iii) Explain the difference between job costing and batch costing

Job Costing

A form of specific order costing in which one product is made at a time and each product is unique. Each job must have a unique code and it is the customer to order first before the product is made.

Batch Costing

It's also a form of specific order costing method but a number of products are made at a specific point in time. The products are made in batches (groups). Every production activity is in a batch. One batch may carry a number of units of a product. Each batch has a unique code.

b)Calculate the cost per unit of each product A and B using Activity Based Costing method

		A		В
Direct materials cost per unit	(5kgs * 800)	4,000	(4kgs * 600)	2,400
Direct labour cost per unit	(3hrs * 500)	<u>1,500</u>	(7hrs * 400)	<u>2,800</u>
Prime cost per unit		5,500		5,200
Overhead cost per unit (W1)		<u>1,880</u>	_	<u>1,414</u>
Cost per unit		<u>7,380</u>	-	<u>6,614</u>

Total overhead cost Frw 80,000,000

Cost Pool	Cost Driver	Apportio nment	Overh ead	A		В	
Machine set up cost	No of set ups	20%	16,000 ,000	(420/800 * 16,000,000)	8,400, 000	(380/800 * 16,000,000)	7,600, 000
Procurement cost	No of purchase orders	45%	36,000 ,000	(28/64 * 36,000,000)	15,750 ,000	(36/64 * 36,000,000)	20,250 ,000
Electricity	No of Kilowatts	35%	28,000 ,000	(600/1,250 * 28,000,000)	13,440 ,000	(650/1,250 * 28,000,000)	14,560 ,000
Total Overhead Cost Production units		100%	80,000 ,000	-	37,590 ,000 20,000	-	42,410 ,000 30,000

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Cost Pool	Cost Driver	Apportio nment	Overh ead	A	В
Overhead				1,880	1,414
cost per unit					

	<u>A</u>	<u>B</u>	<u>Total</u>
Purchase orders per annum	28	36	64
Kilowatts per annum	600	650	1,250
Set ups per annum	420	380	800
Production units	20,000	30,000	50,000

QUESTION FOUR

MARKING GUIDE

Qn	Criteria	Marks
a		
i	Identification of limiting factors	
	Award 0.5 marks for materials and labour resources needed	1
	Award 1 mark for correct choice of limiting factor	<u>1</u>
	Maximum marks awarded for part a) i	2
ii	Optimal production plan and total contribution	
	Calculation of contribution per unit	1
	Calculation of contribution per unit of limiting factor	1
	Ranking of the products	1
	Sharing of resources needed	1
	Allocation of resources remaining	1
	Calculation of optimal production plan	2
	Calculation of total contribution	<u>1</u>
	Maximum marks awarded for part a) ii	8
b	Four factors considered before outsourcing	
	Award 1 mark for each factor explained	4
	Maximum marks awarded for part a) iii	4
c		
i	Calculation of economic order quantity	2
ii	Calculation of total ordering cost	2
ii	Calculation of total holding cost	2
	Maximum marks awarded for part b	<u>6</u>
	Total	<u>20</u>

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a)

i) Identification of limiting factors

Materials			
Materials available	50,000	kgs	
Materials Needed:			
	Kgs per unit	<u>Units</u>	Total Kgs
Alpha	5	7,000	35,000
Beta	4	3,000	12,000
Gamma	6	5,000	30,000
Total Materials needed			<u>77,000</u>
Labour			
Labour hours available	28,000	hrs	
Labour hours needed:			
	Hrs per unit	<u>Units</u>	<u>Total Hrs</u>
Alpha	1	7,000	7,000
Beta	2	3,000	6,000
Gamma	3	5,000	<u>15,000</u>
Total Labour hours needed			<u>28,000</u>

Materials is a limiting factor because we need 77,000 kgs but we only have 50,000 kgs

ii) Finding Optimal Production Plan and total Contribution

step 1: identify the limiting factor

materials is a limiting factor (part i)

Step 2: Calculate contribution per unit			
	<u>Alpha</u>	<u>Beta</u>	<u>Gamma</u>
Selling price per unit	60,000	44,000	78,000
Less: Variable cost per unit	45,000	<u>36,000</u>	<u>57,000</u>
Contribution per unit	<u>15,000</u>	<u>8,000</u>	<u>21,000</u>
Step 3: Calculate contribution per unit of limiti			
	<u>Alpha</u>	<u>Beta</u>	<u>Gamma</u>
Contribution per unit	15,000	8,000	21,000
Kgs per unit	<u>5</u>	<u>4</u>	<u>6</u>
Cont. per unit of limiting factor	<u>3,000</u>	2,000	<u>3,500</u>
Step 4: Rank the products			
	<u>Alpha</u>	<u>Beta</u>	<u>Gamma</u>
	2nd	3rd	1st

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Step 5: allocate the scarce resources and find the optimal plan

Rank	Product	Units	Kgs used	Kgs remaining
1st	Gamma	5,000	(6kgs * 5,000) =30,000	(50,000 - 30,000) =20,000
2nd	Alpha	(20,000kgs/5kgs) =4,000	20,000	
3rd	Beta	-	-	

The optimal plan is to produce 5,000 units of Gamma and 4,000 units of Alpha. No units of Beta will be produced.

Step 6: find the total contribution

Rank	Product	Optimal Plan	Cont per unit	Total contribution
1st	Gamma	5,000	21,000	105,000,000
2nd	Alpha	4,000	15,000	60,000,000
3rd	Beta	-	8,000	-
Total Co	ontribution	<u>165,000,000</u>		

b) Explain any four factors to be considered before outsourcing of services.

- 1) Quality: The quality of products or services the business is outsourcing to must be of the standard acceptable. There must be an assurance that the right quality of products or services will be provided
- 2) The management will also need to assured of continuity of supply of goods and services. There must be a guarantee that supply of what will be needed will not stop before the contract signed is expired.
- 3) There must be an agreement of a fixed price at which the products or services will be exchanged. If prices are to change, it must be clear under what conditions and the limits.
- 4) The management should investigate whether the available capacity freed up can be used to generate additional profits from a different product.
- 5) Management should consider whether labour morale will be adversely affected by a decision to outsource

b)

i. Calculate the economic order quantity (Round to nearest whole number)

Annual demand		16,000	
Cost per delivery		2,500	
Holding cost per table	(15% * 36,000)	5,400	
EOQ =		(2* 16,000 * 2,500)/ 5,400	
		80,000,000	
		5,400	
		14,814.81	
		121.72	
		122	tables

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ii. Calculate the total ordering cost

TOC= D/Q*Co 16,000*2,500 = 327,869 FRW 122

iii. Calculate the total holding cost

THC= Q/2*hc

122/2*(15%*36,000) = 329,400 Frw

QUESTION FIVE

MARKING GUIDE

Qn	Criteria	Marks
a	Difference between normal loss and abnormal loss	
	Normal loss explanation	1
	Abnormal loss explanation	1
	Maximum marks awarded for part a	2
b. i	Process 1 account	
	Correct posting direct materials	1
	Correct posting direct labour	0.5
	Correct posting variable overheads	1
	Calculation of normal loss 0.5 and amount 0.5 marks	1
	Correct posting of actual output	1
	Calculation of abnormal loss/gain	1
	Cost per unit	1
	Balancing of the process account	0.5
	Maximum marks awarded for process 1	7
ii.	Process 2 account	
	Correct transfer of output from process 2	1
	Correct posting direct labour	0.5
	Correct posting variable overheads	1
	Calculation of normal loss 0.5 and amount 0.5 marks	1
	Correct posting of actual output	1
	Calculation of abnormal loss/gain	1
	Balancing of the process account	0.5
	Maximum marks awarded for process 2	6
c	Five characteristics of relevant cost	
	Award 1 mark for each correct characteristic	<u>5</u>
	Maximum marks awarded for part b	<u>5</u>
	Total	20

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a) Explain the difference between normal loss and abnormal loss as used in process costing

Normal Loss

This is the expected loss in a production process which is expressed as a percentage of input quantity. Input quantity less normal loss gives expected output which should normally be compared to actual output

Abnormal Loss

Abnormal loss is the extra loss the business suffers beyond the expected loss. Abnormal loss arises when the actual output is less than the expected output.

b.i Prepare process 1 account

Dr			Process 1 acc	Process 1 account			Cr
Particulars	<u>Units</u>	Price / unit	Amount	<u>Particulars</u>	<u>Units</u>	Price / unit	<u>Amount</u>
Direct Materials	8,000	5,000	40,000,000	Normal Loss (10%*8,000)	800	800	640,000
Direct Labour			8,000,000	Output	7,000	7,244.44	50,711,111
Variable OH			4,800,000				
				Abnormal Loss	<u>200</u>	<u>7,244.44</u>	<u>1,448,889</u>
	<u>8,000</u>		<u>52,800,000</u>		<u>8,000</u>		<u>52,800,000</u>

Cost per unit (process 1) =
$$\underline{(52,800,000 - 640,0000)} = \underline{52160000} = 7,244.44$$

(8,000 - 800) 7,200

ii. Prepare process 2 account

Dr		Process 2 ac	count			Cr	
Particulars	<u>Units</u>	Price	Amount	<u>Particulars</u>	<u>Units</u>	<u>Price</u>	Amount
Direct Materials	7,000		50,711,111	Normal Loss (5% * 7,000)	350	600	210,000.00
Direct Labour			7,920,000	Output	6,800	9,261.52	62,978,339
Variable OH			3,168,000				
		•	61,799,111				
Abnormal Gain	<u>150</u>	9,26 1.52	1,389,228				
	<u>7,150</u>		63,188,339				63,188,339
			•				

Cost per unit (process 2) =
$$(61,799,111-210,000)$$
 = 9.261.52 (7,000-350)

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- c) Explain five characteristics of relevant costs considered in decision making
- 1) Future oriented: Costs that will be incurred in future as a direct result of a management decision.
- 2) Cash flow based: Are cash transactions rather than accounting or paper transactions. They represent actual cash outflows or inflows that will occur as a result of a decision.
- 3) Incremental / Differential: Are costs that change or vary between different alternatives. They are not common costs.
- 4) Opportunity costs: The value of the alternative that is sacrificed must be considered when making a decision. It's a cost that affects the decision made.
- 5) Avoidable costs: Relevant cost are costs that can be avoided when a decision is not taken. They must only be incurred when a choice is made. When a choice is not made the cost will also not be incurred.
- 6) **Realizable costs:** The disposal value or market value/fair value must be considered when making a decision.

QUESTION SIX

MARKING GUIDE

Qn	Criteria	Marks
a		
i	Explanation of two differences between MC and AC	
	Award 2 marks for every clear difference explained	4
	Maximum marks awarded for part a) i	4
ii	Preparation of marginal costing profit statement	
	For each period award 0.5 marks for sales, variable cost of sales, variable selling cost, contribution, total fixed cost and marginal profit	<u>6</u>
	Maximum marks awarded for part a) ii	6
iii	Preparation of absorption costing profit statement	
	For each period award 0.5 marks for sales, cost of sales, under/over absorption, gross profit, total non-production costs and absorption profit	<u>6</u>
	Maximum marks awarded for part a) ii	6
b	Purpose of preparation of management accounts	
	Award 0.5 marks for each listing and 0.5 marks for each explanation	2
	Maximum marks awarded for part b	<u>2</u>
	Total	<u>20</u>

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a)

i)Explain two major differences between marginal costing and absorption costing

1) Purpose

Marginal costing enables well informed short-term decision making, and absorption costing calculates the cost of output as well as providing the closing inventory valuation for inclusion in the financial statements.

2) Calculation

Marginal costing is based on variable costs but excludes fixed costs and absorption costing includes both direct and indirect cost. Generally, if a cost is variable, it is also direct, therefore, the addition of fixed overheads to the marginal cost will give the full absorption cost.

3) Profitability

When there is closing inventory there will be a difference in the profits calculated by the two methods. The difference in profit will be explained by the difference in the value of the closing inventory.

4) Use

Marginal costing is not allowed for financial reporting purposes whereas absorption costing can be used for both financial and management accounting.

ii) Marginal Costing Profit Statement for the two periods January and February, 2025

Details	January			February		
		FRW	FRW		FRW	FRW
Sales	(4,000 * 25,000)		100,000,000	(6,200 * 25,000)		155,000,000
VC of Sales:						
Opening Inventory	(0 * 18,000)	-		(2,000 * 18,000)	36,000,000	
Add: Production Costs	(6,000 * 18,000)	108,000,000		(4,800 * 18,000)	86,400,000	
Less: Closing Inventory	(2,000 * 18,000)	36,000,000	72,000,000	(600 * 18,000)	10,800,000	111,600,000
Variable Selling Costs	(2.5% * 100,000,000)		<u>2,500,000</u>	(2.5%*155,000,00 0)		3,875,000
Contribution			25,500,000			39,525,000
Less: Fixed Costs						
Fixed Production Costs		12,500,000			12,500,000	
Fixed Selling Costs		2,200,000			2,200,000	
Fixed Administration Costs		1,800,000	<u>16,500,000</u>		1,800,000	16,500,000
Marginal Costing Profit			9,000,000			23,025,000

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Workings

W1) Variable Cost per unit	Frw
Direct Material Cost per unit	8,000
Direct Labour Cost per unit	5,400
Variable Overhead Cost per unit	4,600
Variable Cost per unit	<u>18,000</u>

iii) Absorption Costing Profit Statement for the two months January and February, 2025

	January					
		FRW	FRW		FRW	FRW
Sales	(4,000 * 25,000)		100,000,000	(6,200 * 25,000)		155,000,000
Cost of Sales:						
Opening Inventory	(0 * 20,500)	_		(2,000 * 20,500)	41,000,000	
Add: Production Costs	(6,000 * 20,500)	123,000,0 00		(4,800 * 20,500)	98,400,000	
Less: Closing Inventory	(2,000 * 20,500)	41,000,00 0	82,000,000	(600 * 20,500)	12,300,000	127,100,000
Over / Under Absorption	Over Absorption		2,500,000	Under Absorption		500,000
Gross Profit			20,500,000			27,400,000
Less: Non-Production Costs						
Variable Selling Costs	(2.5% * 100,000,000)	2,500,000		(2.5%*155,000,000)	3,875,000	
Fixed Selling Costs		2,200,000			2,200,000	
Fixed Administration Costs		1,800,000	6,500,000		1,800,000	7,875,000
Absorption Costing Profit			14,000,000			19,525,000

W2) Total Cost per unit		FRW
Variable Cost per unit		18,000
Fixed Cost per unit	(12,500,000/5,000)	<u>2,500</u>
Total Cost per unit		<u>20,500</u>

W3) Under / Over Absorption			
	<u>January</u>		<u>February</u>
Budgeted Production Units	5,000	Budgeted Production Units	5,000
Actual Production Units	<u>6,000</u>	Actual Production Units	<u>4,800</u>
Difference	1,000	Difference	200
Fixed Cost per unit	<u>2,500</u>	Fixed Cost per unit	<u>2,500</u>
Over Absorption	2,500,000	Under Absorption	500,000

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iv) Reconcile the marginal and absorption costing profits for January and February, 2025

	January	February
Marginal Costing Profit (FRW)	9,000,000	23,025,000
Change in Inventory (units)	2,000	1,400
Fixed Cost per unit	2,500	2,500
Difference in Profits (FRW)	5,000,000	(3,500,000)
Absorption Costing Profit (FRW)	14,000,000	19,525,000

b) Apart from decision making, explain two other purposes of preparation of management accounts

Planning and Budgeting

Management accounts gives the knowledge on how to plan and prepare budgets. Planning involves setting of goals and objectives to be achieved in the future. Budgets are quantitative plans of action prepared in advance of the period to which it relates.

Control

Control involves comparison of actual results to the plan to get the difference (variance) and investigate the cause of the difference.

Other points may include: Evaluation of performance, communication of targets, motivation of employees, allocation of resources.

QUESTION SEVEN

MARKING GUIDE

Qn	Criteria	Marks
a	Differences between general and specific overhead	
	Award 1 marks for each explanation and 1 mark for examples	<u>4</u>
***************************************	Maximum marks awarded for part a	4
b		
i	Identification of basis of apportionment	
	Award 0.5 mark for each correct basis of apportionment	<u>3</u>
	Maximum marks awarded for part b)i	3
ii	Allocation and apportionment of overheads	
	Award 2 marks for each correct overhead apportioned	12
	Award 1 mark for correct addition of the total overheads	<u>1</u>
	Maximum marks awarded for part b)ii	<u>13</u>
	Total	20

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a) Giving examples, explain the difference between general overheads and specific overheads

General Overheads

Are overhead costs incurred in more than one cost centre. General overheads should be apportioned. Apportionment is the sharing out of the general overheads to all the departments depending on the most appropriate basis of apportionment.

Example: Rent: Rent is paid for the entire business which has more than one department.

Specific Overheads

Are overhead costs incurred in individual departments. Specific overheads should be allocated. Allocation is the transfer of specific overheads to their respective departments.

Example: Salary of Departmental staff. Staff in individual departments. Their salaries can be identified with specific departments.

b)

Identify the most appropriate basis of apportionment for each of the six overhead costs

Overhead	Basis of Apportionment
Rent	Area
Depreciation of Equipment	Plant Book Value
Canteen Costs	Number of Employees
Electricity Costs	Kilowatts
Water Costs	Cubic Capacity
Office Stationery Costs	Number of Employees

Allocate and apportion the overhead costs using the basis of apportionment identified in b) i. above

Overhead	Basis of Apportionment	_Amount	Production Departments		Service Departments	
		-	Dept A	Dept B	Stores	Maintenan ce
Rent	Area	2,500,000	571,429	464,286	803,571	660,714
Depreciation of Equipment	Plant Book Value	6,800,000	1,088,000	1,904,000	2,448,000	1,360,000
Canteen Costs	Number of Employees	800,000	166,667	266,667	233,333	133,333
Electricity Costs	Kilowatts	1,750,000	486,111	777,778	233,333	252,778
Water Costs	Cubic Capacity	600,000	180,000	210,000	90,000	120,000
Office Stationery Costs	Number of Employees	1,200,000	250,000	400,000	350,000	200,000
Allocated and Apportioned Overheads		13,650,000	2,742,206	4,022,730	4,158,238	2,726,825

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	Dept A	<u>Dept B</u>	<u>Stores</u>	<u>Maintenance</u>	<u>Total</u>
Plant Book Value	2,000,000	3,500,000	4,500,000	2,500,000	12,500,000
Kilowatts	5,000	8,000	2,400	2,600	18,000
Cubic Capacity	360	420	180	240	1,200
Number of Employees	25	40	35	20	120
Area	3,200	2,600	4,500	3,700	14,000

End of Marking Guide and Model Answers

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