ICPAR

**CERTIFIED PUBLIC ACCOUNTANT** 

ADVANCED LEVEL 2 EXAMINATIONS **A2.2: STRATEGIC PERFORMANCE MANAGEMENT** 

DATE: THURSDAY, 01 DECEMBER 2022

MARKING GUIDE AND MODEL ANSWER

## RNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC **SECTIONCA**ARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC RNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC

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NOV	Part Aarnov20221CPARNOv20221CPARNOv20221CPARNOv20221CPARNOv20221CPA	R
NOV	Per unit requirement Award 0.5 Marks to each product	R
NOV	Total demand Award 0.5 Marks to each product PARNOV2022ICPARNOV202ICPARNOV2	R
NOV	Total material requirement Award 0.5 Marks to each product	ŀ
VOV	Material shortage (CPARNOV2022) CPARNOV2022 (CPARNOV2022) (CPARNOV20	I
NOV	Optimum production plan Award 0.5 Marks to each product 21CPARNOV20221CPA	I
NOV	Profit PARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221CPA	I
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NOV	Define and formulate the objective function	J
VOV	Formulate the constraints Ov20221CPARNOV20	I
NOV	Draw a graph identifying the feasible region 221CPARNOV20221CPARNOV20221CPA	I
VON VON	Optimum production plan Award 1 Mark to each point at the feasible area	J
NOV	Conclusion V2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARN	ŀ
Ma	<b>ximum</b> arnov2022icparnov2022icparnov2022icparnov2022icparnov2022icpar	F
iii) \	Shadow price explanations V2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPA	F
NO7	Part BARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202IC	li I
NOV	Determination of variable cost per unit Award 1 Mark to each variable cost	Ī
NOV	Determination of fixed cost Award 1 Mark to each fixed cost CPARNOV2022ICPA	I
NO7	Contribution to sales ratio	]
NOV	Break-even point ICPARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNO	I
Ma	ximumarnov2022ICPARnov2022ICPARnov2022ICPARnov2022ICPARnov2022ICPA	I
ii <sup>O</sup>	Expected monthly profit after tax Award 1 Mark to each elemet of BEP	1
NOV	Expected monthly profit before tax ARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICP	Ī
NOV	Expected contribution each month PARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPA	I
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iii)\	Sales as per revised plan OV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICP	I
VOV	Variable costs 0221CPARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICP	I
NOV	Fixed costs ) V2022ICPARNOV202ICPARNO	J
NOV	Profit/Loss V2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNO	I
Ma	ximum NA DNO V2022ICPARNO V202ICPARNO V202ICPARNO V202ICPARNO V202ICPARNO V202ICPA	li T
INO I	v 2022 i CPARNO V 2022 i CPARN	T

RNOV2022ICPA<mark>ra 2.2</mark>v2022ICPARNOV202ICPARNOV202ICPAR

S	MARKING GUIDE ARNOV 2022 ICPARNOV 2022 ICPAR	Mar ks
NOUS SNOV	Material Costs-Chair bases Award 1 mark for calculation and 0.5 Marks for explanations	0V <b>1.5</b> 0V20221 0V20221
RNOV	Material Costs-Chair foots Award 1 mark for calculation and 0.5 Marks for explanations	DV <b>1.5</b> 21 DV20221
NONS YOMS	Material Costs-Armrests Award 1 mark for calculation and 0.5 Marks for 221CPARNO explanations v20221CPARNO v2	0V <b>1.5</b> 21 0V20221
VONS VONS VONS	Material Costs-chair adjustable steel sheet Award 0.5 marks for calculation and 0.5 Marks for explanations	DV 20221 DV 20221 DV 20221
RNOV	Labor Cost 0.5 for carpent and 0.5 for designer costs 0.5 Marks for explanations RN	DV <b>1.5</b> 21
ZNOZ ZOMS	Overheads Award 0.5 marks for calculation and 0.5 Marks for explanations	DV20221 DV20221
NOV	Cost per unit 2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPAR	OV20221
Ma	<b>ximum</b> a rno v 2022 icpa rno	$0.029_{221}$
CiiOV	Implications of the minimum price ARNOV2022ICPARNOV202ICPARNOV	OV2 <b>2</b> 221
To	tal Marks no v20221CPARNO v2022	<sup>0</sup> V <b>50</b> <sup>21</sup>

## 21CPAI**Model Answer**no v 2022 ICPARNO v

RNOV2022ICPAI**Rwamagana Garment Company (RGC) Ltd** V2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC

i) Step1: The shortage of material (Fabrics) in quarter one will be 12,000 meters as calculated below

Details <sub>21CPARNOV20221</sub>	Trouser	Skirt <sub>IOV2022ICPA</sub>	Total O22ICPAR	Available	Surplus
RNOV2022ICPARNOV2022I	CPARNOV2022	ICPARNOV2022ICPA	requirement R	materials	/(Deficit
RNOV2022ICPARNOV2022I	CPARNOV2022	CPARNOV2022ICPA	RNOV2022ICPAR	NOV2022ICPA	RNOV2022
Materials PARNOV2022I	CPARNOV2022	ICPARNOV2022ICPA	RNOV2022ICPAR	NOV2022ICPA	RNOV2022
Per unit requirement	2 meters	1.5 meters	RNO V 2022I CPAR RNO V 2022I CPAR	NOV 2022ICPA Nov 2022ICPA	RNOV2022 RNOV2022
Total demand of V20221	CPARM <b>8,000</b> 2	(20,000+24,000	RNOV2022ICPAR	NOV2022ICPA	RNOV2022
Products CPARNOV20221	CPARNOV2022	CPARN)O =44,000A	RNOV2022ICPAR	NOV2022ICPA	RNOV2022
Total material	36,000	CPARNOV 66,000	102,000 CPAR	90,000	(12,000)
requirements	CPARNO V 2022.	CPARNO V 2022ICPA	DNOV2022ICPAR	NOV2022ICPA	RNO V 2022

ICPA As it is clear the company has direct material as a limiting factor. 22ICPARNOV2022ICPARNOV2022ICPAR

RNOV2022ICPAI**Step2:) To get the optimum production plan, we should first calculate the contribution per PAI** RNOV2022ICPAI**unit of limiting factor**2ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPA

Petails 10 PARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202I	Trouser	2022ICPARNO Skirt
Contribution per unit 21CPARNOV2022ICPARNOV2022ICPA	RNOV20221C13,200	2022ICPARNO 1,2001
Per unit limiting factor-Meters V2022ICPARNOV2022ICPA	RNOV2022ICPARN2	2022ICPARNOV2 <b>125</b> I
Contribution per unit of limiting factor (FRW/M)	1,600	2022ICPARNOV 800 I
Ranking CPARNOV2022ICPARNOV202ICPARNOV202	RNOV2022ICPARIST	2022ICPARNOV 2022I

PA As it is clear in the above table, the trouser should be given priority as it has the high contribution par per unit of limiting factor PARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202

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Step3: Optimum Production plan will be producing 36,000 units of both trousers and skirts considering the limiting factor. V2022ICPARNOV2022ICPAR

	Item	Units to be	Direct material	Total units	Available	Balance
	RNOV202210	produced	per unit parnov2	Required	materials	PARNOV2022IO
	RNOV2022I	CPARNOV2022ICPAR	(Meters) PARNOV2	2(Meters)) V2022I	CPARNOV2022IC	PARNOV2022IO
	Trouser	18,000	20V2022ICPARNOV2	36,000	90,000	54,000
VI	Skirt 0221	(54,000/1.5) CPAR	NO 5/2022ICPARNOV2	254,000 NOV2022I	54,000 202210	P <b>.O</b> RNOV202210
\]	RNOV2022I	36,000 V2022 ICPAR	NOV2022ICPARNOV2	022ICPARNOV2022I	CPARNOV2022IC	PARNOV2022IO

<b>Description</b> RNOV2022ICPARNOV2022ICPARN	V202 Trouser	/20221CPARN <b>Skirt</b> 2	ICPARNO Total
NOV2022ICPARNOV2022ICPARNOV2022ICPARN	OV2022IC <b>FRW</b> O	/2022ICPARN <b>FRW</b> 2	ICPARNO <b>FRW</b>
Level of Activity	18,000	20,000+16,000	54,000
Selling PriceRNOV2022ICPARNOV2022ICPARN	V180,000,000	/20221 <b>232,000,000</b> 2	412,000,000
COSTS	OV2022ICPARNO	/2022ICPARNOV2022	ICPARNOV2022
Material Costs (Fabrics FRW 2,000 per meter) 21CPARNOV20221CPARNOV	72,000,000	/ <sup>2022</sup> <b>108,000,000</b>	180,000,000
Labor Costs-FRW 800 per labor hour CPARN	21,600,000	57,600,000	79,200,000
Other variable costs 221CPARNOV20221CPARN	28,800,000	/2022 43,200,000	72,000,000
Total Variable Costs ICPARNOV2022ICPARN	122,400,000	/2022 <b>1208,800,000</b> 2	331,200,000
Contribution NOV20221CPARNOV20221CPARN	57,600,000	23,200,000	80,800,000
Fixed Costs RNOV2022ICPARNOV2022ICPARN	OV2022ICPARNO	/2022ICPARNOV2022	ICPARNOV2022
Manufacturing OV2022ICPARNOV2022ICPARN	OV2022ICPARNO	/2022ICPARNOV2022	43,200,000
Marketing and distribution RNOV2022ICPARN	OV2022ICPARNO	/2022ICPARNOV2022	21,600,000
Total fixed costs 2022ICPARNOV2022ICPARN	OV2022ICPARNO	/2022ICPARNOV2022	64,800,000
Profit 21CPARNOV2022ICPARNOV2022ICPARN	OV2022ICPARNO OV2022ICPARNO	<del>/ 20221CPARNO V 2022</del> /2022ICPARNO V 2022	16,000,000

# ii) For the RGC Ltd, advise on which optimum level of production to be produced in quarter two and which related maximum contribution and profit ( to solve this problem linear programming should be used)

# **Step1: Defining the variables**

Let x be the number of trousers to be produced V2022ICPAR

Let y be the number of skirts to be produced NOV2022ICPAR

# **Step2: Define and formulate the objective function**

The objective of RGC Ltd is to maximize contribution and profit, the objective given by: Max, C=3200x+1200y

# **Step3: Formulate the constraints**

Material requirement per unit: NOV2022ICPARNOV2022ICPARNOV

Trouser: FRW 4,000/FRW 2,000=2 meter per trouser

Skirt: FRW3,000/FRW2,000=1.5 meter per skirt20221CPAR

# Labor hour requirement per unit:

**Trouser:** FRW1,200/FRW 800=1.5 Labor hours

Skirt: FRW 1,600/FRW 800=2 Labor hours

**Material constraint:** 2x+1.5y<=9,000

**Labor hour constraints:** 1.5x+2y<=7,500

**Production constraint:** 2x<=y

Non negativity constraint: x,y>=0

# Step4: Draw a graph identifying the feasible region: Constraints related equations: V2022ICPARNOV2022I

Material constraints: 2x+1.5y=9,000

Labor constraint: 1.5x+2y=7,500

Production constraint: 2x=y

Non negativity constraint: x, y=0

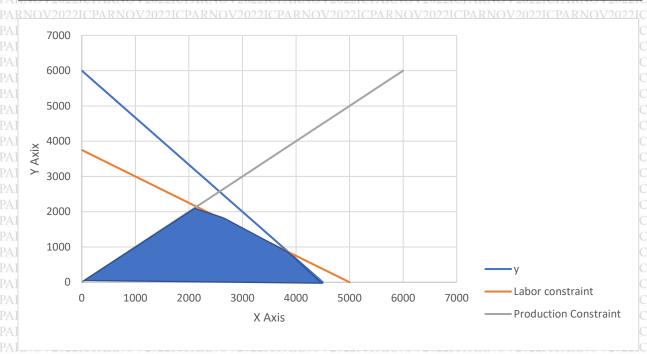
# To draw the graph at least two points are needed at each constraint equation: CPARNOV202

J2x+1.5y=9,000NOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV

AI	RNO V 2022I CPARNO V 2022I CPARNO	V2022ICPARNOV2022ICPARNOV0 22ICPARNOV2022ICPARNO4,500
A.I	ANO V 2022I CPARNO V 2022I CPARNO PYOV 2022I CPARNO V 2022I CPARNO	V2022ICPARNOV2022ICPARNOV2022ICPARNOV2020I

#### 1.5x+2v=7.500

AI	${ m RN}$ OV2022ICPARNOV2022ICPARNO	V2022ICPARNOV2022ICPARNOV0 (22ICPARNOV2022ICPARNO5,000)
A.I	NOV2022ICPARNOV2022ICPARNO YOV2022ICDAPNOV2022ICDAPNO	V2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2020



The feasible region will be given by the shaded area, the optimum point will be from the point (0,0) or (4500,0) or the intersection of lines 2x=y and 1.5x+2y=7,500, or the intersection of lines 2x+1.5y=9,000 and 1.5x+2y=7,500

At the point (0,0) RGC Ltd will produce zero units of both trousers and skirts hence making 0 contribution and a loss of FRW 1,200.

At the point (4,500 and 0) RGC Ltd will produce 4,500 units of trousers hence making FRW 14,400,000 of contribution (C= (3,200\*4,500) + (1,200\*0) and a profit of FRW 9,000,000(14,400,000-(1200\*4500)).

The intersection of lines 2x=y and 1.5x+2y=7,500 will give the following points

X = 1.364 Units Y = 2.728 Units

At this point (1,364 and 2,728) RGC Ltd will produce 1,364 units of trousers and 2,728 units of skirts hence making FRW 7,637,200 of contribution (C= (3200\*1364) +(1200\*2728) and a profit of FRW 2,728,000 (7,637,200-(1,200\*4,092)).

The intersection of lines 2x+1.5y=9,000 and 1.5x+2y=7,500 will give the following points

X=3,857 Units Y=857 Units

At this point (3,857 and 857) RGC Ltd will produce 3,857 units of trousers and 857 units of skirts hence making FRW 13,370,800 of contribution (C= (3,200\*3,857) +(1,200\*857) and a profit of FRW 7,714,000(13,370,800-(1,200\*4,714)).

**Conclusion:** Therefore, RGC Ltd should produce 4,500 Units of trousers as they will maximize both contribution and profit of FRW 14,400,000 and FRW 9,000,000 respectively.

# iii)Discuss the proposals of the RGC Ltd's CEO regarding the overtime and part time hourly rate payments NOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202IC

The overtime rate should normally be determined by the rate at which RGC Ltd should pay for the extra additional one unit of limiting factor which is in this case labor hours. To set the right rate at which additional extra workers will be paid hourly, RGC Ltd should determine the shadow price which will be found by adding one extra unit of labor hour on total available hours. The new optimum production, contribution and profit will be calculated which will then be compared with the original optimum production, contribution and profit. The difference between two contributions will then set as the maximum additional hourly rate at which RGC should not go beyond for extra workers.

# Rwamagana Best Chalk Company (RBCC) Ltd

i. Advise the management of RBCC Ltd on the monthly number of chalk boxes to be produced and sales revenues to break even

For determining the Break-Even Point, it is necessary to separate variable and fixed costs element

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Al**from the given costs:**0221CPAR ARNOV20221CPARNOV20221CPAR

## **Cost of sales:**

Variable cost per unit: Change in Cost of sales/Change in the level of activity

=(FRW165,000,000-FRW131,250,000)/(35,000-25,000) =FRW 3,375/ Box of chalk

RDetails21CPARNOV20221CPARNOV	2 Calculations2	)22ICPARNOV2022I <b>July</b> ()	NOV2022ICPARN <b>August</b> I
RNOV2022ICPARNOV2022ICPARNOV	2022ICPARNOV2	Total FRW2022ICPAR	Total FRW NOV20221
Total cost of sales	2022ICPARNOV2	131,250,000	165,000,000
RNOV2022ICPARNOV2022ICPARNOV	3,375*25,000	84,375,000	118,125,000
Total Variable costs 221CPARNOV	3,375*35000	)22ICPARNOV2022ICPAR	NOV2022ICPARNOV2022I
Total fixed costs (Cost of sales)	2022ICPARNOV2	46,875,000/2022ICPARI	146,875,000 RNOV2022I

# Selling and distribution costs:

Variable cost per unit: Change in selling and distribution costs/Change in the level of activity 21 CFRW129,375,000-FRW121,857,000/(35,000-25,000) = FRW 750/ Box of chalk a RNOV2022

Details <sup>21</sup> CPARNOV2022ICPARNOV2022ICPARN	Calculations	V <b>July</b> ICPARNOV202	August V2022
KNOV2022ICPARNOV2022ICPARNOV2022ICPARN	OV2022ICPARNO	Total FRW	Total FRW
Total selling and distribution Total selling and distribution	OV2022ICPARNO OV2022ICPARNO	121,875,000	129,375,000
	750*25,000 NO	18,750,000 OV202	26,250,000 022
Total Variable costs 221CPARNOV20221CPARN	750*35000 NO	V2022ICPARNOV202	22ICPARNOV2022
Total fixed costs (Selling and Distribution)	OV2022ICPARNO	103,125,000	103,125,000

### Other administrative costs

PAI**Variable cost per unit:** Change in other administration costs /Change in the level of activity 02210 (FRW9,210,000-FRW8,650,000)/(FRW35,000-FRW25,000) = FRW 56/Box of chalk NOV202210

Details 21CPARNOV20221CPARNOV202	Calculations	RNOV2022ICPARNO	August August
RNOV2022ICPARNOV2022ICPARNOV202	2ICPARNOV2022ICPA	Total FRW	Total FRW
Total selling and distribution 10 V202	2ICPARNOV2022ICPA	RNOV208,650,000	/2022ICPA <b>9,210,000</b> I
RNOV2022ICPARNOV2022ICPARNOV202	2ICPAR56*25,000	RNOV2 1,400,000	/2022ICPA <b>1,960,000</b> I
Total Variable costs 221CPARNOV202	56*35,000	ARNOV2022ICPARNO	V2022ICPARNOV2022I
Total fixed costs(Cost of sales)	21CPARNOV20221CPA 21CPARNOV20221CPA	7,250,000	7,250,000

Therefore, the total variable costs per unit will be given by: 2022ICPARNOV2022ICPARNOV2022I

Details 21 CPARNO V 2022 I CPA	FRW <sup>2022</sup> ICPARNOV2022I
Variable costs of sales	RNOV2022ICPARNO3,375
Variable selling and distribution costs CPARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV2	RNOV2022ICPARNOV2750
Variable Other administrative costs 2ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICP	RNOV2022ICPARNOV2(56I
Total Variable cost per unit OV2022ICPARNOV2022ICPARNOV2022ICPA	RNOV2022ICPARNO <b>4,181</b> I

Selling price per unit = FRW 225,000,000/25,000 or FRW 315,000,000/35,000 = FRW 9,000 per box

C/S ratio (Contribution to sales ratio): (FRW 9,000- FRW 4,181)/ FRW 9,000=4,819/9,000 The total Fixed costs per unit will be given by: 0221CPARNOV20221CPARNOV2022ICPARNOV202

A2.2 2022 CPARNO V 2022 I CPAR

UDetails <sup>2</sup> ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV202	ZICPARNOV2022ICPARNO <b>FRW</b> I
Fixed costs of sales 0221CPARNOV2022ICPARNOV2022ICPARNOV202	46,875,000
Fixed selling and distribution costs	1CPARNOV20221C103,125,000
Fixed Other administrative costs/2022ICPARNOV2022ICPARNOV202	ICPARNOV2022ICPA <b>7,250,000</b> I
Totap221CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV202	ICPARNOV2022IC <b>157,250,000</b>

# It is known that break even sales \*C/S ratio gives Total fixed costs or

(BES\*4,819/9,000) =FRW 157,250,000,

Break Even point in terms of FRW will be FRW 293,681,262

Break Even point in terms of units will be 32,631 boxes of chalks (FRW 293,681,262/9,000)

# ii. Advise the board of directors on the number of boxes of chalk to be produced and total revenues if the proposed investment is undertaken for RBCC Ltd to earn the expected ROI

Management wants 15% of ROI per annum on the investment of FRW 60,000,000

Expected monthly profit after tax: (FRW 60,000,000 \*0.15/12): FRW 750,000 Expected monthly profit before tax: (FRW 750,000\*100/70): FRW 1,071,429 Expected contribution each month: Profit +FC: FRW 1,071,429+157,250,000

: FRW 158,321,429

Therefore, Sales\*C/S ratio=FRW 158,321,429 Required sales: FRW 158,321,429\*9,000/4,819

Required sales: FRW 295,682,270 2221CPARNO

Therefore, required monthly sales in units to make ROI of 15% will be FRW 295,682,270/9,000

Sales will be: 32, 854 Boxes of chalks.

# iii. Evaluate the proposal of the marketing director and advise the management of RBCC whether the plan should be implemented

If the proposal is accepted the new selling price per box will be FRW 9,000\*90%= FRW 8,100 and the variable cost per unit will remain unchanged at FRW 4,181 parnovaled per box will be FRW 9,000\*90%= FRW 8,100 and the variable cost per unit will remain unchanged at FRW 4,181 parnovaled per box will be FRW 9,000\*90%= FRW 8,100 and the variable cost per unit will remain unchanged at FRW 4,181 parnovaled per box will be FRW 9,000\*90%= FRW 8,100 and the variable cost per unit will remain unchanged at FRW 4,181 parnovaled per box will be FRW 9,000\*90%= FRW 8,100 and the variable cost per unit will remain unchanged at FRW 4,181 parnovaled per box will be FRW 9,000\*90%= FRW 8,100 and the variable cost per unit will remain unchanged at FRW 4,181 parnovaled per box will be FRW 9,000\*90%= FRW 9,000\*90

Details 21 CPARNO V 2022 I CPARNO V 2022 I CPARN	DV2022ICPARNOV2022I Calculations I	CPARNO <b>FRW</b>
Sales as per revised plan PARNOVANALICPARN	(35,000*115%*FRW 8,100):	326,025,000
Less: Variable costs) 221CPARNOV 2022ICPARN	V2022(FRW 4,181*35,000*115%)	168,285,250
Monthly contribution as per revised plan	DV2022ICPARNOV2022ICPARNOV2022I	157,739,750
Less Monthly Fixed costs ARNOV2022 CPARN	0V2022ICPARNOV2022ICPARNOV2022I	157,250,000
Additional advertising costs NOV2022ICPARN	DV2022ICPARNOV2022ICPARNOV2022I	CPA8,500,000
Total fixed costs V2022ICPARNOV2022ICPARN	DV2022ICPARNOV2022ICPARNOV2022I	165,750,000
Profit/Loss before tax <sub>21CPARNOV2022ICPARN</sub>	0V2022ICPARNOV2022ICPARNOV2022I	(8,010,250)
Taxation CPARNOV2022ICPARNOV2022ICPARN	DV2022ICPARNOV2022ICPARNOV2022I	CPARNOV20221
Profit/Loss after tax PARNOV2022ICPARN	DV2022ICPARNOV2022ICPARNOV2022I	(8,010,250)

**Advise/Conclusion:** The existing profit after tax during the month of august is FRW 7,990,500 Considering the proposal of the marketing director, the company would suffer a loss of FRW

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8,010,250. Therefore, basing on financial considerations, the plan should not be implemented.

# Rwamagana 5K Furniture (R5KF) Ltd

#### Revised cost statement

Details <sub>21</sub> CPARNOV20221CPAR	Note 221CPARNOV20	Student desk and Chair	Staff Chair
RNOV2022ICPARNOV2022ICPAR	NOV2022ICPARNOV20	22ICPARNOV2022ICPARN <b>FRW</b> 2	2ICPARNO <b>FRW</b> I
Selling Price per unit	NOV2022ICPARNOV20	221CPARNOV2022ICPAR10,000	48,000
Costs 221CPARNOV2022ICPAR	NOV2022ICPARNOV20	22ICPARNOV2022ICPARNOV202	2ICPARNOV2022I
Material Costs 10 V 2022 ICPAR	NOV2022ICPARNOV20	22ICPARNOV2022ICPARNOV202	2ICPARNOV2022I
Chair bases ARNO V2022ICPAR	NOV2022ICPARNOV20	22ICPARNOV2022ICPARNOV202	1,320,400
Chair foots ARNOV2022ICPAR	NOV2022ICPARNOV20	221CPARNOV2022108,000,000	2ICPARNOV2022I
Armrests CPARNOV2022ICPAR	NOV2022ICPARNOV <b>2</b> 0	22ICPARNOV2022ICPARNOV202	EICPAR 396,750
chair adjustable steel sheet	NOV2022ICPARNOV3	100,000,000	2ICPARNOV2022I
Total material costs 210 PAR	NOV2022ICPARNOV20	221CPARNOV2022 <b>208,000,000</b>	1,717,150
Labor CostARNOV2022ICPAR	NOV2022ICPARN( <b>4,5</b> )(	22ICPARNOV2022ICPA390,000 <sup>2</sup>	MCPAR 390,000
Other Overhead costs	NOV2022ICPARNOV	500,000 500,0000500000000	500,000
Total Costs RNOV2022ICPAR	NOV2022ICPARNOV20	221CPARNOV2022 <b>208,680,000</b> 2	2,397,150
Number of units V2022ICPAR	NOV2022ICPARNOV20	221CPARNOV20221CPAR <b>20,000</b> 2	2ICPARNOV20 <b>52</b> I
Cost per unit	NOV2022ICPARNOV20	221CPARNOV20221CPAR 221CPARNOV20221CPAR <b>10,434</b>	46,099

#### Conclusion:

Considering financial factors, this offer should not be accepted as for the student desk and chairs, the offer price is not covering total relevant costs and for the staff chair there is a difference of only FRW 1,901 which may not cover every cost, remember in relevant costs principle we only consider relevant cost, but it does not necessarily mean that there are no other fixed costs to be paid by the company. Considering all those factors it is hard for the company to accept this offer in financial perspectives.

Considering non-financial factors, It is clearly stated that Future Leaders academy is a growing school in the country as well as in the region, therefore as it is the potential royal and good customer and company is expecting much orders and demand in the future, R5KF Ltd can consider this and accept this offer for it to create a good relationship with this big customer by expecting much demand in the future from Future Leaders Academy.

#### Notes:

## **Material costs**

## 1. Chairbases

52 chair bases are needed for staff chairs, as in the inventory there is 32 chairbases with no future use, they should be used for the current offer at the residual value which is FRW 23,200 each. The remaining 20 chairbases will be purchased at the normal and current market price which is FRW 28,900 each. Giving the total costs of chairbases of (FRW 23,200\*32)+(20\*28,900) which gives a total of FRW 1,320,400. In this regard, FRW 182,400 is a sunk cost and it should not be used.

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#### Chairfoots:

The current market price of a chairfoot is FRW 5,400 each, even though in the inventory of the company there is enough chairfoots equivalent to 20,800 units, these items are regulary used by the company. R5KF Ltd may use this existing inventory but they will need to be replaced, as a result we should consider the replacement value. Therefore, the costs of chairfoot will be given by: FRW108,000,000 (FRW 5,400\*20,000). The initial cost of chairfoot of FRW 6,500 per unit is a sunk cost as it should not be used because it is a non-relevant cost.

#### 2. Armrest:

Each staff chair needs two armrest, as a result the company will need 104 armrests (52 chairs\*2) to complete this offer.

In its inventory there is 70 armrests which need to be revised, in this regard, we should check the costs of 70 existing armrest and the cost of additional 34 armrests to be purchased and compare this with the full purchase cost of 104 armrests.

Details21CPARNOV20221CPARNOV20221CPA	RNOV2022ICPARNOV2Calculations2	2 Amount FRW
Residual value of 70 armrests OV2022ICP/	RNOV2022ICPARNOV2022IC70*2100 <sup>2</sup>	022ICPAR 147,000
Revisiting costs of 70 Armrests	RNOV2022ICPARNOV2022IC70*1200	84,000
Cost of additional 34 armrests OV20221CP	RNOV2022ICPARNOV2022I(34*4875 <sub>2</sub>	022ICPAR 165,750
Total costs ARNO V2022ICPARNO V2022ICPA	RNOV2022ICPARNOV2022ICPARNOV2	022ICPAR <b>1396,750</b> I

If they are all purchase at the current market price, they would cost the company FRW 507,000 (FRW 104 armrests\*FRW4,875). The company should therefore choose to use the ones which are cheap.

The unit costs of FRW 7,400 is a non-relevant costs as it is a sunk costs, therefore, it should not be considered in this matter. RNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPA

## 3. Chair adjustable steel sheet (6\*48 crem)

These chair adjustable steel should be purchased at FRW 5,000 each giving a total cost of FRW 100,000,000 (FRW 5,000\*20,000 students chairs).

# 4. Carpenters costs

Labour cost is calculated by taking 12 staff \* 100,000\*2 weeks/ 4 weeks = FRW 600,000. This cost is non-relevant as workers were at spare capacity and penalty is a non-relevant cost as this contract is not the cause of the delay of AH Co contract. Cost will be shared equally

#### 5. Designer expert costs

In this regard, the overtime of 15 hours at the normal rate plus 50% will be considered as the designer expert is being employed at full capacity. Therefore, the cost will be FRW 180,000 for each product (15hrs\*8,000\*1.5). Cost will be shared equally

# **Overheads**

# 6. Carpenter costs

The carpenter cost will be relevant to this decision, the cost will therefore be FRW 500,000 for each product which is (2 carpenters\*FRW 50,000\*5 visits).

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# ii. Explain the implications of the minimum price that has been calculated in relation to the minimum price agreed with Future Leaders Academy NOV2022ICPARNOV2022

- The relevant cost is the future incremental cash flow associated with the decision. Hence any past or sunk costs should be ignored. Any non-cash flows such as depreciation or other such accounting adjustments should be excluded from the relevant cost statement.
- Incremental implies that the future cash flow should be as a direct result of the decision taken so any items such as a salary, which is a committed cost rather than an incremental one, should be ignored.
- The minimum price calculated in the above relevant cost statement would not be practical to charge Future Leaders Academy.
- In reality, R5KF Ltd would want to cover all costs, not only just relevant ones. Hence, any sunk, committed or fixed costs incurred would also need to be covered. 22ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV20
- Also, R5KF Ltd would look to make a profit on the contract. In adding a profit margin to arrive at a final price, R5KF Ltd should be mindful of remaining competitive and attracting future work.
- The minimum price calculated in part a should serve only as (i) starting point when calculating the final price RNOV2022ICPA

# **SECTION B**

# Marking Guide a) i) Critically evaluate the difference between incremental budgeting and rolling budgets Incremental budgeting (2 Marks awarded to a well evaluated budget type) 2 A rolling budget Maximum Marks ii) Discuss Five limitations that could be encountered by Kandagira Ltd while using the traditional budgeting approach (1 Mark for listing and 1 Mark for discussing) Allows past inefficiencies to be carried forward 2 Unethical behaviour 2 Time consuming 2 Value to users 2 Shareholder value 2 Rigidity 2 Protection 3 Stifle innovation 3 Sales focus 4 Forgotten strategy 8 Reinforces dependence culture 4 Any other valid implication 4 Maximum Marks 10 Ansimum Marks 10

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A	iii)Discussing some of the difficulties they might encounter as they change the budgetary
A	ARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202I
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A	Training CPARNOV2022ICPARNOV202ICPARN
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A	Any other valid implication ARNOV2022ICPARNOV202ICPAR
A	aknov 2022icparnov
1	b) Advise the management of Kandagira Ltd the factors they should put into consideration
A	when setting a multinational transfer price.
A	Exchange rate fluctuation PARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202
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A	A PAnti-dumping legislation PARNOV2022ICPARNOV202ICPARNOV202I
A	Competitive pressures
A	Repatriation of funds)221CPARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202
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# Model Answer

# Kandagira Ltd

a) Incremental budgeting

# i) Critically evaluate the difference between incremental budgeting and rolling budgets

Incremental budgeting is a process of budgeting which considers current year's results as a base and adjusts it with an extra amount for estimated growth or inflation in the next year. This budgeting approach may be appropriate when an entity is budgeting for costs such as staff salaries which can easily be estimated based on the current salaries as opposed to, for example advertising costs which cannot be easily quantified. The issues with incremental budgeting is that it progressively builds on previously budgeted inefficiencies.

While, a rolling budget is one which gets updated continuously by adding a further period whilst dropping the earliest one, bidding at preparing targets and plans which are more realistic and certain. The rationale for rolling budgets is that, anticipated conditions could have changed from the time the budget was prepared due to several reasons such as new technologies in place, changed environmental conditions, among many other factors.

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# ii) Discuss five limitations that could be encountered by Kandagira Ltd while using the traditional budgeting approach

The main drawback with incremental budgeting similar to other traditional budgeting methods is that it allows past inefficiencies to be carried forward since cost levels are rarely subjected to close scrutiny.

**Unethical behaviour**: Incremental budgeting is also an inefficient form of budgeting as it allows or encourages budget slack and wasteful spending which is totally unethical. For example, staff in the marketing department at Kandagira Ltd may set a lower sales target if a bonus is capped at the number of washing taps sold.

**Time consuming**: Budgets are considered to be time consuming and expensive to prepare as it is estimated that even with the current support of computer models, organisations still spend on budget close to 20 or 30 hours of management precious time. With the production and selling department, among other departments, the budget setting process appear to take a couple of hours as consolidation will also be of a paramount.

Value to users: It is believed that some surveys have showed that a great deal of financial directors wish to reform the budgetary process as they feel that finance staff are spending too much time on low value adding activities during budget preparations. With Kandagira Ltd specialising in the production and selling of washing taps, it appears that staff in those departments would be expected to spend more time on the budget as opposed to the finance team.

**Shareholder value:** It is argued that budgets do not focus on shareholder value as most of them are set on an incremental basis acceptable between a manager and his or her supervisor. When it is achieved a manager may get a reward, an act that is myopic in its own nature. The budget process does not appear to add value to Kandagira Ltd shareholders but to its managers.

**Rigidity**: The process of reviewing and updating traditional budgets is rather too slow compared to the pace at which the external environment is changing. With advancements in technology, Kandagira Ltd would be better devising a means of relying on the strategic objectives that would be indicating the future of the company as opposed to much reliance over traditional budgets. Kandagira Ltd would adopt the budgetary system which allows flexibility and the adoption of its strategic objectives as need be other than relying on the rigid traditional budgetary system.

**Protection**: Budgets protect rather than reduce costs in a sense that once approved a manager will have the audacity of spending the approved amounts without further authorisation and sometimes leading them to spend costs unnecessarily especially at the end of the budget period.

**Stifle innovation**: Due to the need to respond to what was approved, managers end up not being innovate as they do fear to take risks, most especially when an adverse outcome impacts on their short-term performance. Eventually the staff at Kandagira Ltd would be less innovative.

**Sales focus**: Budgets have been accused of focusing much on sales targets as opposed to customer satisfaction. And when the short-term forecasts are also realised, you also find that still, Kandagira Ltd's customers are not satisfied.

Forgotten strategy: Most Kandagira Ltd's concern would be around monitoring the monthly results against the short-term monthly budget as opposed to establishing a system that monitors

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the long-term process against the organisation's strategy. RNOV

**Reinforces dependence culture:** The process of planning and budgeting within a framework devolved from senior management accelerates a culture of dependence. Such traditional budgeting system discourage a personal responsibility culture which is detrimental Kandagira Ltd.

iii)Some of the difficulties that Kandagira Ltd may face during the process of changing its budgetary systems:

**Resistance to change:** Due to some slack that could have been built by Kandagira Ltd's staff owing to the traditional budgeting system, introducing a new system may threaten to change the existing power relationships and hence the resistance.

Loss of control: It might take some time for senior management to adapt to the new system including comprehending its results. 22ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV

**Training**: Like any new introduced system, training of all staff would be paramount in order for the new system to operate effectively which could be time consuming and expensive.

**Implementation costs:** The implementation of a new system such as a beyond budgeting approach would require careful attention which also increases the cost of implementation.

**Lack** of accounting information: Kandagira Ltd may not have the systems in place to accommodate and analyse the necessary information. CPARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202

# b) Factors to be considered when setting a multinational transfer price

Exchange rate fluctuation – The value of a transfer of goods between Kandagira Ltd and its other profit centres in different countries may equally depend on fluctuations in the Rwandan France exchange rate.

**Taxation in different countries** – Companies will tend to manipulate their profits especially when the tax regimes between profit centres are different by reducing profits in a country with a low tax rate. For example, if Kandagira Ltd has a subsidiary in Uganda where the tax rate is 20% and in Rwanda it is at 30%, profits in Uganda will tend to be manipulated due to a lower tax rate.

**Import tariffs** – Multinational companies will intend to import goods at a minimised cost in order to keep the transfer price at a minimum value especially in situations where import tariffs are imposed.

**Exchange control** – This situation may occur when Kandagira's foreign subsidiary, where transfer of profits is restricted, sells to Kandagira Ltd at an exorbitantly higher prices disguising profits as sales revenues.

**Anti-dumping legislation** – This occurs when governments take action to protect home industries by restricting Kandagira's subsidiary from transferring goods into Rwanda cheaply. For example, by insisting on the use of a fair market value as the transfer price.

Competitive pressures — Transfer pricing can be used to enable profit centres to match or undercut local competitors. V2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARN

**Repatriation of funds** – Kandagira's subsidiary may repatriate profits to Rwanda by inflating transfer prices for goods sold to it by Kandagira where inflation is high, thereby reducing the subsidiaries' profits and consequently saving their value.

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## RNOV20221CPAI**QUESTION THREE** 21CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221C

# RNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC RNOV2022ICPAI**Marking Guide** ov2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV

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RNOV2022	a) i) Using the BCG portfolio matrix, advise ISIMBI Supermarket on the strategies that can
CNO V 2022 RNO V 2022	ticpa be deployed in order to balance ISIMBI's product range.
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NOV2022	$_{ m CPAI}$ Stars $_{ m 70}$ Harvest $_{ m NO}$ v20221CPARNOV20221CP
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OV2022	ii) Discuss at least four limitations of using a BCG portfolio matrix
OV2022	HCPARNO V 2022 ICPARNO V 2022 ICPARN
OV2022	CPAI <b>Undefined market</b> V2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC
OV2022	Does not consider relationships 0.5 Does not consider relationships
OV2022	ICPARNO V 2022ICPARNO V 202
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IO V 2022 IO V 2022	UCPAI <b>Any other valid limitation</b> PARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNO <b>(0.5</b> 022ICPARNOV2022IC UCPARNOV2022ICRARNOV2022ICPARNOV2
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OV2022	ICPAI <b>ii)</b> Discussing five factors that might make it difficult to forecast future sales at ISIMBI super PARNOV2022IO
OV2022	ICPAI <mark>market.</mark> 22ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC
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OV2022	CPARNOV2022ICPARNOV202ICPAR
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OV2022	Referring to the coffee shop business, explain the specific characteristics of service costing. PARNOV202210
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	(Totale 25 Marks)

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rnov20221cpai**(Total: 25 Marks)**/20221cparnov20221cparnov20221cparnov20221cparnov20221cparnov20221cparnov20221c

#### Model Answer

# a) i) Advise ISIMBI Supermarket on the strategies that can be deployed in order to balance ISIMBI's product range:

The BCG portfolio matrix provides a method of positioning products through their life cycles in terms of market growth and market share. RNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICP

**Stars** – These are products with a high share of a high growth market, though they require some investments to maintain their market position. The bread product appears to belong here and ISIMBI may spend some money to further support this product or make a decision to instead spend it on cookies to increase on their market share.

Cash cows – These are products with a high share of a low growth market. These might require less investment though generating high levels of cash income. ISIMBI should preserve the market for cakes so that they remain cash cows, though this may require some additional investment for customer retention and loyalty.

**Question marks** – These are products that possess a low share of a high growth market, with potential to become stars though with some investment reluctance as sufficient market retention may not be guaranteed at this level. ISIMBI should therefore build – by increasing the cookies market share such that it gets to the level of bread – which is the current star.

**Dogs** – These are products with a low share of a low growth market, and these are allowed to be killed off. ISIMBI should consider divesting pancakes and if cookies cannot be turned into stars, then, ISIMBI should consider divesting them as well.

# i) Discussing at least four limitations in using the BCG matrix

- The model is too simplistic in the four classifications used in that some products are falling in more than one category ICPARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV
- ✓ The market is not always easy to define mainly for organisations operating in specialised markets
- ✓ The model does not consider the relationship between divisions or any links between products for example there may be a relationship between bread and cakes which is apparently ignored.
- The model requires the collection of large amounts of data which is time consuming and expensive. PARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV2

# ii) Discuss five factors that may make it difficult to forecast future sales at ISIMBI supermarket RNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV20

**Political and economic changes:** When there are highly political and economic changes in an economy, uncertainty is created, which make it difficult to forecast future sales and the related costs.

**Environmental changes**: When the environment changes, it is believed that it will have a considerable impact on some of ISIMBI's markets and products.

**Technological changes**: Technology is changing by the day and therefore the past cannot be relied upon to tell the future. <sup>22</sup>ICPARNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202IC

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**Technological advancements:** The advent of advanced manufacturing technology is changing the cost structure of so many organisations. Besides, faster machinery may arise which change the way output levels are currently being produced.

**Social changes**: Alterations in taste and preferences including changes in social acceptability of different products may cause difficulties in forecasting future sales levels.

Climate changes: Isimbi supermarket products depend on agricultural produces which are highly sensitive to climate changes RNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV20

# b) Discuss the specific characteristics of service costing:

**Simultaneity**: The production and consumption of a service are simultaneous which makes it difficult to be inspected for quality, nor can be it returned if it is not what was required. Poor quality service can only be determined after a customer has already received it.

**Heterogeneity**: The service received will be changing each time it is received. It appears impossible to consistently deliver the same quality of service. The service served on Monday's will different from that served the next day.

**Intangibility**: The performance of a service entails many other intangible factors. Personality of the person serving you, quality of the service itself etc. At ISIMBI coffee shop customers may also enjoy other intangibles such as listening to soft music while having coffee, quick service, smiling waiters and waitresses etc.

**Perishability**: A service cannot be stored neither can it be bought in bulk. There is no work in progress for services as it is usually seen with products. Coffee can be served one cup at a time in the coffee shop and therefore service cannot be stored or served in bulk similar to other products.

**No transfer of ownership:** Service costing does not result in the transfer of property. The purchase of a service only allows the customer access to or a right to use a facility.

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## RNOV20221CPAI**QUESTION FOUR**0221CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221CPARNOV20221C

Marking Guide v20221CPARNOV202
i) NOPAT Calculation PARNOV2022ICPARNOV202ICPARNO
Operating profit Award 0.5 for each year, max 1 mark 1 mar
Research costs expensed (Project GK) Award 0.5 for each year, max 1 mark
Amortization of prior year expenses Award 0.5 for each year, max 1 mark) V2022ICPARNOV2021
Expense relating to increase in allowance for doubtful debts Award 0.5 for each year, max 1 mark
Add non-cash expenses Award 0.5 for each year, maxp1 mark 2022ICPARNOV2022ICPARNOV2021
Cash taxes Award 10 for each year, max 2 marks 2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV
Calculation of adjusted capital employed at 01 Jan
Capital employed as at 01 January Award 0.5 for each year, max 1 mark 0020221CPARNOV201
Expense relating to increase in allowance for doubtful debts Award 0.5 for each year, NOV2022 max 1 mark NOV2022 ICPARNOV2022 ICPARNOV202 ICPARNOV202 ICPARNOV202 ICPARNOV202 ICPARNOV202 ICPARNOV202 ICPARNOV202 ICPARNOV202 ICP
Project GK research costs Award 0.5 for each year, max 1 mark
New product development project Award 0.5 for each year, max 1 mark NOV2022ICPARNOV2021
Non-cash expenses during 2020 Award 0.5 for each year, max 1 mark RNOV2022ICPARNOV2021
Adjusted capital employed at 01 January Award 0.5 for each year, max 1 mark
Calculation of WACC Award 1 for each year, max 2 marks 0V2022ICPARNOV2022ICPARNOV2022
Calculation of EVA Award 1.5 for each year, max 3 marks OV2022ICPARNOV2022ICPARNOV2023
Maximum Marks
ii) Problems of using ROI and RI Award 0.5 for each well explained point, max 3
marks 22ICPARNOV202ICPARNOV202ICPARNOV
iii) Problems of Short-termism and reward-based performance Award 0.5 for each well
explained point, max 3 marks and award 1 mark for a well-presented email
Total Marks

# RNOV2022ICPAI**Model Answer**nov2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC

RNOV2022ICPAI**i.\(Calculation\of EVA**ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC

# RNOV2022ICPAI**1. Calculation of NOPAT for 2020 and 2021** V2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC

RNOV2022ICPAI	Details ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARN	OV2022ICPAR <b>2021</b> 2	0221CPARNO <b>2020</b> 1	CPARNOV2022I
RNOV2022ICPAI	knov2022ICPARnov2022ICPARnov2022ICPARnov2022ICPARn	FRW (000,000)2	FRW (000,000)	CPARNOV2022I
RNOV2022ICPAI	Operating profit V2022ICPARNOV2022ICPARNOV2022ICPARN	363,000	<sup>1221CPAR</sup> 241,000	CPARNOV2022IC
RNOV2022ICPAJ RNOV2022ICPAJ	Add: research costs expensed (Project GK)	1,000	1,000 DOZDICPARNO 1,000	CPARNO V 202210
RNOV2022ICPAI	Less: 0221 Amortization ICP of NO prior ICP/year V2 expenses	OV2022ICPARNOV2	022ICPARNOV2022I	CPARNOV2022I
RNOV2022ICPAI	(Product development project) V2022ICPARNOV2022ICPARN	OV2022IC <b>(15,000)</b> 2	0221CPAR <b>(15,000)</b> 10	CPARNOV2022I
RNOV2022ICPAI RNOV2022ICPAI	Add: Expense relating to increase in allowance for doubtful debts	DV2022ICPARNOV2 DV2022ICPARNOV2	D22ICPARNOV2022II D22ICPARNOV500) D22ICPARNO (500)	CPARNOV2022IC CPARNOV2022IC CPARNOV2022I
RNOV2022ICPA	Add non-cash expenses CPARNOV2022ICPARNOV2022ICPARN	$10V2022ICPARN300_2$	022ICPARNOV300I	CPARNOV2022I
RNOV2022ICPAI	Less: Cash taxes (Working) NOV2022ICPARNOV2022ICPARN	OV2022 <b>I(108,900)</b> 2	0221CPAR( <b>72,300)</b> 10	CPARNOV2022I
RNOV2022ICPAI	NOPAT CPARNO V2022ICPARNO V2022ICPARNO V2022ICPARN	OV2022IC <b>241,900</b> <sup>2</sup>	D22ICPAR 154,500 II	CPARNOV2022I

RNOV 2022ICPARNOV 2022ICPARNOV

# RNOV2022ICPAI**Working of cash tax**22ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC

RNOV2022ICPARNOV2022ICPARNO	V2022ICPARNO V2022ICPARNO V2022ICPA V2022ICPA PNO V2022ICPA PNO V2022ICPA	RNOV2022ICPARN <b>2021</b>	2020 2020 T	CPARNOV2022IC
RNOV2022ICPAR <del>NOV2022ICPARNO</del> RNOV2022ICPARNOV2022ICPARNO	V2022ICPARNOV2022ICPARNOV2022ICPA	FRW (000)	FRW (000)	CPARNOV 2022IC
RNOV2022ICPAR Tax charge as pe	r the SOPLENOV2022ICPARNOV2022ICPA	RNOV2022ICPA108,300	21CPARN <b>71,760</b> 10	CPARNOV2022IC
RNOV2022ICPA Add tax relief on	interest (Interest charge*30%) 022ICPA	RNOV2022ICPARN600	22ICPARNOV <b>540</b> I	CPARNOV2022IO
RNOV2022ICPA Cash Taxes	V20221CPARNOV20221CPARNOV20221CPA V20221CPARNOV20221CPARNOV20221CPA	108,900	72,300	CPARNOV2022IO CPARNOV2022IO

# RNOV2022ICPA 2. Calculation of adjusted capital employed at 01 January 2020 and 20212022ICPARNOV2022ICPARNOV2022IC

Details <sup>2</sup> ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARN	OV2022ICPAR <b>2021</b> 2	)22ICPARNO <b>2020</b> I
RNO V 2022ICPARNO V 2022ICPARNO V 2022ICPARNO V 2022ICPARN D NOV 2022ICDA D NO V 2022ICDA D NO V 2022ICDA D NO V 2022ICDA D NO	FRW (000,000)	FRW (000,000)
RNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARN	OV2022ICPARNOV2	022ICPARNOV2022I
Capital employed as at 01 January 221CPARNOV20221CPARN	OV2022IC <b>458,500</b> 2	)22ICPAR <b>426,950</b> I
Add: Expense relating to increase in allowance for doubtful debts	DV2022ICPARNOV2 DV2022ICPARNOV2 DV2022ICPA <b>4,500</b>	0221CPARNOV20221 0221CPARNOV20201 0221CPARNO 5,000
Add Capitalization of research and development CPARN	OV2022ICPARNOV2	D22ICPARNOV2022I
Project GKARNOV2022ICPARNOV2022ICPARNOV2022ICPARN	OV2022ICPAH,0002	)22ICPARNO <b>1,000</b> I
New product development project O22ICPARNOV2022ICPARN	DV2022ICP/15,000	D22ICPARN 15,000
Add non-cash expenses CDARNOV2022 CDARNOV2022 CDARNOV	0V2022ICPART300	DZZICPARNOV 300
Adjusted capital employed at 01 January 10 V 2022 1 CPARN	OV2022IC <b>479,300</b> 2	)22ICPAR <b>448,250</b> I

# RNOV2022ICPAB. Weighted average cost of capital ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022IC

RNOV2022ICPAR	RNOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2	2022ICP	ARNOV2022ICPARNOV2022ICPARNO	)V2022I	CPARNOV2022IC
RNOV2022ICPAR	NOV2022ICPARNOV2022ICPARNOV2022ICPARNOV	022ICP	RNOV2022ICPARNOV2022ICPARNO	)V2022I	CPARNOV2022IC
RNOV2022ICPAR	RN <b>Details</b> ICPARNOV2022ICPARNOV2022ICPARNOV;	2021	ARNOV2022ICPARNOV2022ICPARNO	2020	CPARNOV2022IC
RNOV2022ICPAR	Debt weight =121,500,000/458,500,000*100	26%	113,139,000/426,950,000*100	26%	CPARNOV2022IC
RNOV2022ICPAR	Equity weight=337,000,000/458,500,000*100	74%	313,811,000/426,950,000*10	74%	CPARNOV2022IC

RNOV2022ICPA	After tax cost of debt ICPARN	OV2022ICPARNOV2022ICPARN5.6%2	ICPARNOV2022ICPARNO <b>5.6%</b> I
NOV2022ICPA	Weight of debt	OV2022ICPARNOV2022ICPARNO26%2	IICPARNOV2022ICPARNO\26%
INOV 2022ICPAI INOV 2022ICPAI	Cost of Equity NO V2022ICPARN	OV2022ICPARNOV2022ICPARNO 15%	IICPARNOV 2022ICPARNOV 2022I
NOV2022ICPA	Weight of Equity V2022ICPARN	OV2022ICPARNOV2022ICPARNC <b>74%</b> 2	ICPARNOV2022ICPARNOV <b>74%</b> I
NOV2022ICPA	WACC <sup>2</sup> ICPARNOV2022ICPARN	OV2022ICPARNOV2022ICPARNOV13%	ICPARNOV2022ICPARNOV212%

# RNOV2022ICPA 4. Economic Value Added-EVA 2022ICPARNOV2022ICPA

RNOV2022ICPAR	NOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARN	OV2022ICPARNOV2	022ICPARNOV2022I	CPARNOV2022IC
RNOV2022ICPAR	NOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARN	OV2022ICPAR <b>2021</b> 2	0221CPARNO <b>2020</b> 10	CPARNOV2022IC
RNOV2022ICPAR	NOV2022ICPARNOV2022ICPARNOV2022ICPARNOV2022ICPARN	FRW (000,000) <sup>2</sup>	FRW (000,000)	CPARNOV2022IC
RNOV2022ICPAR	EVA=NOPAT-(K*Capital) RNOV2022ICPARNOV2022ICPARN	<sup>DV2022IC</sup> 179,591 <sup>2</sup>	<sup>1221CPA</sup> 105,192.5	CPARNOV2022IC
RNOV2022ICPAR	(241,900-(479,300*13%) 2021	OV2022ICPARNOV2 OV2022ICPARNOV2	)221CPARNO V 202210 )221CPARNO V 202210	PARNO V ZUZZIC PARNO V 2022IC
RNOV2022ICPAR	(154,500-(11%*448,250) 2020 v20221CPARNOV20221CPARN	OV2022ICPARNOV2	022ICPARNOV2022I	CPARNOV2022IC

RNOV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICP

#### Email to CEO

From:managementaccountant@gmail.com

To: ceo@gmail.com

Date: 01/01/2022

Subject: Discussing the divisional performance measures and their related problems

Dear CEO,

I hope this email finds you well, as per your request kindly accept my view concerning the inquired matters:

The problems that may be involved in comparing divisional performance using RI and ROI The following are some of the problems that may arise as a results of using RI and ROI as a divisional performance measure:

- Divisions may operate in different environments. A division earning a ROI of 10% when the industry average is 7% may be considered to be performing better than a division earning a ROI of 12% when the industry average is 15%.
- The transfer pricing policy may distort divisional performance.
- Divisions may have assets of different ages. A division earning a high ROI may do so because assets are old and fully depreciated. This may give a poor indication of future potential performance.
- There may be difficulties comparing divisions with different accounting policies (e.g. depreciation).
- Evaluating performance on the basis of a few indicators may lead to manipulation of data. A wider range of indicators may be preferable which include non-financial measures. It may be difficult to find nonfinancial indicators which can easily be compared if divisions operate in different environments.
- ii. Analyze the objection of the CFO in both short- and long-term view and authenticity of the financial results when the idea of the CEO is bought. OV2022ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARNOV202ICPARN

**Short-termism:** Linking rewards to financial performance may tempt managers to make decisions that will improve short-term financial performance but may have a negative impact on long-term profitability. e.g. they may decide to cut investment or to purchase cheaper but poorer quality materials.

**Manipulation of results:** In order to achieve the target financial performance and hence their reward, managers may be tempted to manipulate results for example: accelerating revenue, delaying costs, understating a provision or accrual, manipulation of accounting policies

**Not conveying the full picture**: The use of these short-term financial performance indicators has limited benefit to the company as it does not convey the full picture regarding the factors that will drive long-term profitability, e.g. customer satisfaction, quality. Therefore, when monitoring performance, a broader range of measures should be used.

**Best Regards** 

Management Accountant

# END OF MODEL ANSWER AND MARKING GUIDE

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