

MANAGEMENT ACCOUNTING I

School Year 2014/2015 Management - 1st Year

Final test

Time: 120 minutes

8 June 2015

Regarding the resolution, all explaining calculations of the values presented must be presented

Part I (5 marks)

Estimated time for solving: 25 minutes

Jota company produces, under the regime of joint production, two main products, one by-product, and scrap in a production process with the following characteristics:

- The material MP is converted in Section 1, giving rise to the intermediate product 1.
- The intermediate product 1 is converted in Section 2, giving simultaneously rise to the intermediate product 2, to the main product A and to the by-product S.
- The by-product S needs an additional conversion in Section 3 in order to be marketed.
- The intermediate product 2 is converted in Section 4, giving rise to the main product B.

Regarding the month associated with the beginning of the activity of the company, the following data are known:

1-100 000 € of material MP were consumed

2 - Conversion costs

Section	Value
Section 1	213 000 €
Section 2	310 000 €
Section 3	6 000 €
Section 4	90 000 €

3 - Production and sales

	Product A	Product B	By-product S
Production	10 000 un.	16 000 un.	4 000 un.
Sales	6 000 un.	16 000 un.	3 000 un.
Selling price	30 €/ un.	50 €/ un.	5 €/ un.

4 - Non-manufacturing expenses

Non-manufacturing expenses	Value
Fixed selling (distribution)	100 000 €
Variable selling (distribution) - Product A	3 €/unit
Variable selling (distribution) - Product B	5€/unit
Variable selling (distribution) - by-product S	0.25 €/unit
Fixed administrative	185 000 €

Regarding the month under analysis, it is required:

- 1. The unit MCFP of by-product S (Appendix 1). 4,76
- 2. The unit MCFP of the main products. Use the net realizable value method (Appendix 2).

18,3 B 32,3125

Part II (6 marks)

Estimated time for solving: 40 minutes

Gifts company markets advertising gifts imported from China and packed in a Packing section which has a packing capacity of 200 000 units per month.

Regarding May year N, the company prepared the following Profit and Loss Statement (values in euros):

18 200000 FC 402000 ACD 402000 305158 1384 631,52 ACS 36800 18 +16500

Sales	540 000
MCPS +NPMC	382 000
Gross Profit	158 000
Selling (Distribution) expenses	
Variable	36 000
Fixed	70 000
Administrative (fixed) expenses	10 000
Operatioanl Profit	42 000

A(5)
200,000 x8 = 19 (157,89

19

R(5)
200,000 x8 = 19 (157,89

19

R(5)
200,000 x8 = 19 (157,89

Regarding May, the following data are also known:

· Monthly production:

190 000 Units packed.

· Monthly sales:

180,000 Units packed.

- Imported gifts (raw materials): 200 000 units at 1 € each.
- · Costs of the Packing Section:

o Variable:76 000 €

o Fixed: 130 000 €

There were no opening stocks of gifts (imported or packed).

It is required:

- Identify the costing system used by the company, explaining all calculations (Appendix 3);
- Using the notion of manufacturing fixed costs incorporated in profits, justify the difference of profits between the Variable Costing System (VCS) and the Rational Costing System (RCS) (Appendix 4);
- 3. Ascertain the breakeven point and the company's safety margin, explaining the meaning of both (Appendix 5);
- Using the CVP (cost volume profit) equation of Profits, calculate the profit that the company would obtain, if the highest production capacity would be used (Appendix 6);

45600

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- 1. The unit MCFP of by-product S (Appendix 1). 4,7-6
- The unit MCFP of the main products. Use the net realizable value method (Appendix 2).

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- 4. Using the CVP (cost volume profit) equation of Profits, calculate the profit that the company would obtain, if the highest production capacity would be used (Appendix 6);

45600

Part III (7 marks)

Estimated time for solving: 40 minutes

Productive company produces and markets the products A and B, using a production process with the following characteristics:

- · The raw material M1 is converted in the section S1, giving rise to the product A;
- The raw material M2 is converted in the section S2, giving rise to the intermediate product B1;
- Then, this intermediate product is packed (Packing section), giving rise to the product B.

The following uniform cost centres (sections) are defined:

- · S1 Work unit: Mh
- · S2 Work unit: Lh
- · S3 Work unit: Lh
- S4 Allocation unit: to the other manufacturing sections, according to the respective direct costs;
 Costing unit: day
- H . Packing Allocation unit: to the quantities produced of the product B; Costing unit: day
- Raw Materials Warehouse (RMW), whose total costs amount to 10 000 € in April year N, which are allocated to the quantities bought of the materials M1 and M2.

Regarding April of the year N, the following data are known:

a) Costs (in €) and activity of the sections:

	SI	S2	S3	S4	Packing
Activity	4 000 Mh	5 000 Lh	1 200 Lh	-	-
Direct costs	60 000	77 250	24 000	36 000	18 750

 The activity of section S3 was the following: 400 Lh for S1, 500 Lh for S2 and 300 Lh for the Packing section. b) Stocks variation

Raw materials

	M1	M2
Opening stocks	800 tons at 20 €/ton	200 tons at 60 €/ton
Purchases	? ton at 25 €/ton	1 100 tons at 50 €/ton
Consumptions	1 500 tons	? tons
Closing stocks	200 tons	300 tons

Products

	Product A	Intermediate Product B1	Product B
Opening stocks Production Sales Consumptions Closing stocks	500 tons at 70 €/ton 1 500 tons 1 700 tons at 100 €/ton - ?	250 tons at 160 €/ton. 1 000 tons 1 100 tons 1 150 tons	100 tons at 190 €/ton 1 100 tons ? at 250 €/ton 0
Opening stocks PiP Closing stocks PiP	1 400 €	-	2 705 € 11 000 €

Knowing that the company uses the absorption costing system and FIFO as valuation criterion, IT IS

REQUIRED:

WU SI 18,4 WU SZ 18,94 SB 4 ADRACK FULLSAS

1. Ascertain the unit cost of the Work Units or the Allocation Units of the main sections (Appendix 7);

Part IV (2 marks - Appendix 12)

Estimated time for solving: 15 minutes

Comment the following sentence:

"Current characteristics of business environment came to put new challenges to management accounting, particularly with regard to the prevalence and how to deal with indirect costs"