

**ΥΠΟΥΡΓΕΙΟ ΠΑΙΔΕΙΑΣ ΚΑΙ ΠΟΛΙΤΙΣΜΟΥ**  
**ΔΙΕΥΘΥΝΣΗ ΑΝΩΤΕΡΗΣ ΚΑΙ ΑΝΩΤΑΤΗΣ ΕΚΠΑΙΔΕΥΣΗΣ**  
**ΥΠΗΡΕΣΙΑ ΕΞΕΤΑΣΕΩΝ**

**ΠΑΓΚΥΠΡΙΕΣ ΕΞΕΤΑΣΕΙΣ 2019**

**Μάθημα: ΛΟΓΙΣΤΙΚΗ (25)**

**Ημερομηνία και ώρα εξέτασης: Πέμπτη, 23 Μαΐου 2019**

**08:00 - 11:00**

**ΤΟ ΕΞΕΤΑΣΤΙΚΟ ΔΟΚΙΜΙΟ ΑΠΟΤΕΛΕΙΤΑΙ ΑΠΟ ΕΝΤΕΚΑ (11) ΣΕΛΙΔΕΣ**

**ΟΔΗΓΙΕΣ:**

- Να απαντήσετε σε όλες τις ερωτήσεις (Answer all questions)
- Όλοι οι υπολογισμοί πρέπει να φαίνονται καθαρά στο τετράδιό σας
- Επιτρέπεται η χρήση μη προγραμματιζόμενης υπολογιστικής μηχανής
- Δεν επιτρέπεται η χρήση διορθωτικού υγρού/ταινίας
- Επισυνάπτεται τυπολόγιο Λογιστικών Αριθμοδεικτών τριών (3) σελίδων.

**QUESTION 1**  
**PART (A)**

You are in practice as an accountant and have a meeting with a client, Leona Winery, who owns a small winery business where wine is produced and sold.

The records of Leona Winery show:

1. Rent of land is €865 per year
2. Grape juice and other ingredients per bottle of wine is €1,07
3. Direct labour is €0,55 per bottle of wine
4. Water bill is €120 per month
5. Insurance for the year is €720
6. Machinery was purchased at a cost of €5.500. The machinery has a life of 8 years and a residual value of €300. Depreciation is to be charged on a straight-line basis
7. Glass and cork per bottle of wine is €0,78
8. Selling price per bottle of wine is €4,15
9. Sales are 5 500 bottles of wine per year. All production is sold.

**REQUIRED:**

**(a) Calculate**

- i. The number of bottles of wine that Leona Winery must sell **in a year**, in order to break even **(Marks 6)**
- ii. The profit that Leona Winery makes in one year **(Mark 1)**
- iii. The sales of bottles of wine that Leona Winery should make in a year in order to make a profit of €10.325 **(Mark 1)**
- iv. The margin of safety in bottles of wine **(Mark 1)**

The owners of Leona Winery were very ambitious and decided to expand their business. They therefore formed a limited company in order to take over the operations of the winery.

- (b)** Να αναφέρετε δύο (2) χαρακτηριστικά μιας εταιρείας περιορισμένης ευθύνης.  
(Give **two** characteristics of a limited company). **(Mark 1)**

**PART (B)**

Alex has been in business for many years and purchases and sells a single product. Alex uses the weighted average cost method (AVCO) for valuing his inventory and the perpetual inventory system.

The opening inventory on 1 January 2018 was valued at €900 (100 units at €9 each).

The purchases and sales during the year were as follows:

2018	Purchases	2018	Sales
January 8	120 at €10	March 9	180 at €20
February 12	100 at €11	July 14	140 at €20
June 15	100 at €13	December 23	100 at €25
August 28	180 at €14		

**REQUIRED:**

(a) Calculate the value of closing inventory, using:

- i. The weighted average cost method (AVCO), perpetual inventory system **(Marks 7)**
- ii. The 'Last in, First out' method (LIFO), periodic inventory system **(Marks 2)**

(b) Να εξηγήσετε πως οι δύο διαφορετικές μέθοδοι αποτίμησης αποθεμάτων επηρεάζουν τα κέρδη. (Η σύνταξη της κατάστασης αποτελεσμάτων χρήσης δεν είναι απαραίτητη) **(Mark 1)**

*(Explain how the two different inventory valuation methods affect the profit. Preparation of Income Statement is not required).*

**Note: Show your workings to the nearest two decimals.**

**(Total Marks 20)**

## QUESTION 2

The directors of Columbus Products Ltd have provided the following extracts from the general ledger balances on 31 December 2018:

	€
Share capital (€1 ordinary shares)	4.000.000
Share premium	1.000.000
Retained earnings	1.070.000
10% bank loan	80.000
Land at cost	4.090.000
Office equipment – cost	672.000
Office equipment – accumulated depreciation	428.000
Delivery vans – cost	496.000
Delivery vans – accumulated depreciation	298.600
Trade receivables	362.600
Irrecoverable debts	20.200
Allowance for doubtful debts	17.000
Inventory at 1 January 2018	88.100
Revenue	2.696.000
Sales returns	6.000
Purchases	1.600.000
General administrative expenses	122.000
General distribution costs	74.500
Bank loan interest	4.000
Wages and salaries	121.500
Directors remuneration	56.000

### Additional information

1. On 31 December 2018 inventory was valued at €108.500. This included damaged inventory costing €18.000. This could be sold for €21.400, after repairs costing €4.800
2. On 25 July 2018 a delivery van, which cost €80.000, with accumulated depreciation of €56.000 was sold for €20.000. These transactions have not yet been accounted for

The depreciation is charged as follows:

- Office equipment: 25% per annum using the reducing (diminishing) balance method
- Delivery vans: 20% straight line method

The depreciation policy is to charge a full year's depreciation in the year of acquisition and none in the year of disposal

3. Directors' remuneration includes €26.000 of the marketing director
4. Insurance of €12.000, **included** in the general administrative expenses, had been paid for the three months ending 31 January 2019
5. The allowance for doubtful debts is to be maintained at 5% of trade receivables, after writing off a debt of €2.600, which is considered to be irrecoverable
6. The wages and salaries are distributed in the ration of 4:1 between administrative expenses and distribution costs
7. Corporation tax on profits is estimated at €125.000 and is payable on 5 June 2019.

**During the year the following transactions took place which have not yet been accounted for:**

- The land at cost was revalued upward by 10%
- On 15 December the directors decided to make a new issue of 1 000 000 shares at €1,5 in order to take advantage of a business opportunity
- On 28 December the company paid a final dividend of €0,10 per share  
All the shares were eligible for the dividend payment.

### REQUIRED:

Prepare, in line with International Accounting Standard (IAS) 1:

- i. The Statement of Profit or Loss for the year ended 31 December 2018 **(Marks 15)**
- ii. The Statement of Changes in Equity for the year ended 31 December 2018. **(Marks 5)**

**(Total Marks 20)**

**QUESTION 3**

Amalthia Plc Statement of Profit or Loss (extract) for the year ended 31 December 2018 is given below:

	<b>€000</b>
Gross profit	212
Operating expenses	(132)
Operating profit	80
Finance cost	(10)
Profit before tax	70
Taxation	(20)
Profit after tax	50

**The Statements of Financial Position of Amalthia Plc as at 31 December 2018 and 2017 were as follows:**

	<b>2018</b>		<b>2017</b>	
	€000	€000	€000	€000
<b>Non-current assets</b>				
Property, plant and equipment at cost		1.550		1.500
Accumulated depreciation		(300)		(250)
Property, plant and equipment at NBV		1.250		1.250
<b>Current assets</b>				
Inventory	14		10	
Trade receivables	36		30	
Bank	40	90	45	85
Total Assets		1.340		1.335
<b>Equity &amp; Liabilities</b>				
Share Capital		1.110		980
Share Premium		50		30
Retained earnings		80		40
		1.240		1.050
<b>Non-current liabilities</b>				
9% Loan Notes		50		200
<b>Current liabilities</b>				
Trade payables	10		5	
Taxation	40	50	80	85
		1.340	80	1.335

**Notes:**

- i. The depreciation of non-current assets for the year was €80.000
- ii. Loss on sale of a non-current assets was €8.000
- iii. Dividends paid during the year were €10.000
- iv. New non-current assets were purchased during the year at a cost of €100.000.

**REQUIRED:**

**(a)** Prepare for the year ended 31 December 2018 the:

- i. Property, Plant and Equipment Account **(Marks 2)**
- ii. Accumulated depreciation of Property, Plant and Equipment Account **(Marks 2)**
- iii. Disposal Account **(Marks 2)**

**(b)** The Statement of Cash Flows in accordance with International Accounting Standard (IAS) 7

**(Marks 14)**  
**(Total Marks 20)**

**QUESTION 4**

The managers of Fresco Ice cream Company wish to purchase a new machine to replace an old machine that has become too expensive to repair. There are two machines which are capable of producing the quality of the ice cream they desire.

The following information is available for the two machines:

Year		Machine F	Machine G
0	Initial cost of investment	10.000	10.000
	Estimated net cash flows:		
1		4.500	3.500
2		2.500	3.500
3		2.500	4.000
4		2.500	2.500
5		1.000	1.500
5	Proceeds from scrap value of machine	1.500	2.000

**REQUIRED:****(a)**

- i. Calculate the exact payback period in years and months for each project **(Marks 4)**
- ii. Calculate the Average Rate of Return (ARR) for each project **(Marks 10)**

**(b)** Να συμβουλευσετε τους διευθυντές ποια μηχανή πρέπει να αγοράσουν.

Να δικαιολογήσετε την απάντησή σας.

*(Advice the managers of Fresco Ice cream Company which machine they should purchase. Give reasons for your answer).*

**(Marks 3)****(c)** The managers of Fresco's Ice cream Company are concerned about the level of borrowing. Fresco Ice cream Company financed its operations as follows:

- €0,50 Ordinary shares €500.000
- €1 Redeemable Preference shares €600.000
- 9% Bank Loan €900.000

**REQUIRED:**

- i. Calculate the gearing ratio **(Marks 2)**
- ii. Comment on the level of Fresco's Ice cream Company gearing. **(Marks 1)**

**(Total Marks 20)**



**QUESTION 5****PART (A)**

Plexi Ltd manufactures parts for sewing machines. It also purchases some parts for resale. The following information is available:

	<b>1 January 2018</b>	<b>31 December 2018</b>
Inventory:	€	€
raw materials	31.000	31.400
work in progress	8.500	7.550
finished goods	8.140	8.250

Some of the balances for the year ended 31 December 2018 were as follows:

	€
Sales of finished goods	461.000
Purchases of raw materials	179.100
Purchases of finished goods	30.850
Carriage on raw materials	1.200
Carriage on finished goods	200
Light and heat	4.900
Factory supervisor's salary	14.000
Patents and royalties	6.500
Administrative and sales wages	52.000
Depreciation of factory machinery	11.400
Depreciation of office equipment	6.200
Manufacturing wages	79.500
Rent	8.000

**Additional Information**

- At 31 December 2018 prepaid Light and heat was €800 and accrued Rent was €900
- Rent, Light and heat are apportioned 60% to the factory and 40% to administration
- Manufacturing wages accrued amount to €500. Six-eighths (6/8) of manufacturing wages are direct and two-eighths (2/8) are indirect.

**REQUIRED:**

Prepare the:

(a) Manufacturing Account the year ended 31 December 2018 **(Marks 7)**

(b) Income Statement (Trading Section) for the year ended 31 December 2018. **(Marks 3)**

**PART (B)**

Merfis Home Deco Ltd buys and sells home furniture. The following information relates to the last two financial years ended 30 April 2018 and 30 April 2019:

**Statement of Profit or Loss for the year ended**

	<b>30 April 2019</b>	<b>30 April 2018</b>
	<b>€</b>	<b>€</b>
Revenue	800.000	850.000
Cost of sales	(520.000)	(400.000)
Gross profit	280.000	450.000
<b>Less</b>		
General expenses	(160.000)	(300.000)
Depreciation	(40.000)	(35.000)
Loan interest	(22.000)	(24.000)
Profit for the year	58.000	91.000

**Note:** 90% of revenues for both years were on credit

**Statement of Financial Position as at**

	30 April 2019	30 April 2018
	€	€
<b>Non-current assets</b>		
Cost	200.000	150.000
Accumulated depreciation	(120.000)	(90.000)
	80.000	60.000
<b>Current assets</b>		
Inventory	105.000	60.000
Trade receivables	135.000	75.000
Cash and bank	-	65.000
	320.000	260.000
<b>Equity and Liabilities</b>		
Ordinary Share Capital	40.000	40.000
Retained earnings	10.000	19.000
<b>Non-current liabilities</b>		
8% Loan	150.000	120.000
<b>Current liabilities</b>		
Trade payables	70.000	81.000
Bank overdraft	50.000	-
	320.000	260.000

**REQUIRED:**

(a) Calculate the following ratios, in two decimal places, for **both** the years ended 30 April 2018 **and** 30 April 2019:

- i. Gross profit margin (Marks 2)
- ii. Return on **total** capital employed (ROCE) (Marks 2)
- iii. Trade receivables collection period (in days) (Marks 2)

(b) Να αναφέρετε:

- i. Δύο (2) πιθανούς λόγους για την αλλαγή στο δείκτη μεικτού κέρδους (Marks 2)
- ii. Δύο (2) πιθανούς λόγους για τους οποίους η επιχείρηση επιδιώκει τη μείωση της περιόδου είσπραξης των χρεωστών της. (Marks 2)

(Suggest **two** possible reasons:

- i. For the change in the gross profit as a percentage of revenue
- ii. The business might wish to reduce the trade receivables collection period).

(Total marks 20)

**(GRAND TOTAL MARKS 100)**

.....THE END.....