

ΥΠΟΥΡΓΕΙΟ ΠΑΙΔΕΙΑΣ, ΠΟΛΙΤΙΣΜΟΥ, ΑΘΛΗΤΙΣΜΟΥ ΚΑΙ ΝΕΟΛΑΙΑΣ  
ΔΙΕΥΘΥΝΣΗ ΜΕΣΗΣ ΕΚΠΑΙΔΕΥΣΗΣ

ΕΝΙΑΙΑ ΓΡΑΠΤΗ ΑΞΙΟΛΟΓΗΣΗ Β΄ ΤΕΤΡΑΜΗΝΟΥ 2021-22

Γ΄ ΤΑΞΗΣ ΛΥΚΕΙΟΥ

ΗΜΕΡΟΜΗΝΙΑ: ΔΕΥΤΕΡΑ 23 ΜΑΪΟΥ 2022

ΕΞΕΤΑΖΟΜΕΝΟ ΜΑΘΗΜΑ: ΛΟΓΙΣΤΙΚΗ (Α΄ ΣΕΙΡΑ)

ΚΩΔΙΚΟΣ ΜΑΘΗΜΑΤΟΣ: Γ025

ΣΥΝΟΛΙΚΗ ΔΙΑΡΚΕΙΑ ΓΡΑΠΤΗΣ ΕΞΕΤΑΣΗΣ ΛΟΓΙΣΤΙΚΗΣ: 90 λεπτά

ΤΟ ΕΞΕΤΑΣΤΙΚΟ ΔΟΚΙΜΙΟ ΑΠΟΤΕΛΕΙΤΑΙ ΑΠΟ ΕΞΙ (6) ΣΕΛΙΔΕΣ

ΣΥΝΟΔΕΥΕΤΑΙ ΑΠΟ ΤΥΠΟΛΟΓΙΟ ΔΥΟ (2) ΣΕΛΙΔΩΝ

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**ΟΔΗΓΙΕΣ**

1. Στο εξώφυλλο του τετραδίου απαντήσεων να συμπληρώσετε όλα τα κενά με τα στοιχεία που ζητούνται.
2. **Να απαντήσετε ΟΛΑ τα ερωτήματα.**
3. **Να μην αντιγράψετε τα θέματα** στο τετράδιο απαντήσεων.
4. Να μη γράψετε πουθενά στις απαντήσεις σας το όνομά σας.
5. Να απαντήσετε στο τετράδιό σας σε όλα τα θέματα **μόνο με μπλε πένα ανεξίτηλης μελάνης.**
6. Απαγορεύεται η χρήση διορθωτικού υγρού ή διορθωτικής ταινίας.
7. Επιτρέπεται η χρήση μη προγραμματιζόμενης υπολογιστικής μηχανής που φέρει τη σφραγίδα του σχολείου.
8. Στη λύση των ασκήσεων να φαίνεται όλη η αναγκαία εργασία.

**ΣΑΣ ΕΥΧΟΜΑΣΤΕ ΚΑΛΗ ΕΠΙΤΥΧΙΑ**

## QUESTION 1

Artemis, the owner of a small pancake shop, makes and delivers pancakes to customers. You are an accountant and Artemis seeks your advice.

The following information is available for the year ended 31 December 2021:

- Rent of shop premises, €520 per month
- Flour and other ingredients, €0,75 per pancake
- Direct labour in production, €0,30 per pancake
- Packaging cost, €0,05 per pancake
- Two (2) motorcycles are used for delivery. Each motorcycle costs €1.500 and has a life span of 5 years. Depreciation is charged on a straight-line basis
- Electricity, €1.980 per year
- Other fixed costs, €6.600 per year
- Selling price, €3,60 per pancake
- Sales were 12 200 pancakes
- All production is sold.

### REQUIRED:

Calculate for the pancakes shop, for the year ended 31 December 2021, the:

- (a) Break-even point (state the formula used):
- i. in units (Marks 10)
  - ii. in sales revenue (Marks 2)
- (b) Margin of safety in units (Marks 2)
- (c) Profit or loss (Marks 4)
- (d) Number of pancakes to be sold to achieve a profit of €10.500 (Marks 3)
- (e) Profit or loss if 5 500 pancakes were made and sold. (Marks 4)

**Note: Show all your workings.**

**Total Marks 25**

## QUESTION 2

Acropolis Fast Foods plc is considering whether to buy a computerised system for kitchen automation. The cost of the computerised equipment will be €80.000. This computerised equipment will be supplied by Smart Robotics plc.

The following information is available:

- The computerised equipment will have a life of 5 years and a scrap value of €10.000.
- Depreciation using the straight-line method will be applied.
- Current cost of capital is 8%.
- All cash flows arise at the end of the relevant year:

	Cash flows
	€
Year 0	(80.000)
Year 1	24.000
Year 2	23.000
Year 3	23.000
Year 4	20.000
Year 5	20.000

A table showing the discount factors for 8% is given below.

Year	8%
1	0,926
2	0,857
3	0,794
4	0,735
5	0,681

### REQUIRED:

(a) Calculate for the computerised system the:

- Accounting rate of return (ARR) **(Marks 8)**
- Net present value (NPV) at the end of year 5 **(Marks 9)**
- Payback period in years and months. **(Marks 6)**

**Note: Show all your workings.**

(b) Advise Acropolis Fast Foods plc whether to invest in the new system giving one (1) reason for your answer.

**(Marks 2)**

**Total Marks 25**

### QUESTION 3

The following information was extracted from the books of Titans Ltd as at 31 December 2021:

	€000
Revenue	3.550
Purchases	2.680
Inventory 1 January	440
Inventory 31 December	620
Trade receivables	720
Cash in hand	180
Ordinary share capital	2.200
Share premium	600
Retained earnings	650
6% Debentures	1.000
5% Irredeemable preference share capital	800
Bank overdraft	400
Trade payables	620
Tax payable	160
Expenses (excluding interest)	320

**Note:** All purchases and sales were made on credit.

#### REQUIRED:

(a) Calculate to two decimal places, the following ratios:

- i. Mark up **(Marks 5)**
- ii. Net profit margin **(Marks 3)**
- iii. Return on total capital employed **(Marks 5)**
- iv. Current ratio **(Marks 3)**
- v. Trade receivables collection period (in days) **(Marks 3)**
- vi. Trade payables payment period (in days). **(Marks 3)**

**Note: Show all your workings.**

(b) Οι συμφωνημένοι όροι για περίοδο είσπραξης από χρεώστες/πελάτες είναι 60 μέρες και για περίοδο πληρωμής πιστωτών/προμηθευτών είναι 70 μέρες.

Να συγκρίνετε και να εξηγήσετε πώς η πραγματική περίοδος **είσπραξης** και **αποπληρωμής**, σύμφωνα με τους υπολογισμούς σας, σε σχέση με τους συμφωνημένους όρους επηρέασαν την Titans Ltd.

*(The agreed collection period is 60 days, and the agreed payment period is 70 days. State how the change between the agreed collection and payable period, compared to the actual collection and payable period according to your calculations, affected Titans Ltd.)*

**(Marks 3)**

**Total Marks 25**

## QUESTION 4

The Statements of Financial Position of Sonia Plc on 31 December 2021 and 31 December 2020 were as follows:

	31 December 2021	31 December 2020
	€	€
<b>Non-Current Assets</b>		
Property, plant and equipment at cost	2.000.000	1.500.000
Accumulated depreciation	(400.000)	(300.000)
Property, plant and equipment at NBV	<b>1.600.000</b>	<b>1.200.000</b>
<b>Current Assets</b>		
Inventory	300.000	250.000
Trade receivables	100.000	120.000
Bank	----	230.000
	<b>400.000</b>	<b>600.000</b>
<b>TOTAL ASSETS</b>	<b>2.000.000</b>	<b>1.800.000</b>
<b>EQUITY AND LIABILITIES</b>		
<b>Equity</b>		
Ordinary share capital	1.000.000	1.000.000
Share premium	200.000	200.000
Retained earnings	295.000	45.000
	<b>1.495.000</b>	<b>1.245.000</b>
<b>Non-Current Liabilities</b>		
7% Redeemable preference shares	400.000	400.000
5% Debentures	----	100.000
	<b>400.000</b>	<b>500.000</b>
<b>Current Liabilities</b>		
Trade payables	75.000	40.000
Tax payable	20.000	15.000
Bank overdraft	10.000	----
	<b>105.000</b>	<b>55.000</b>
<b>TOTAL EQUITY AND LIABILITIES</b>	<b>2.000.000</b>	<b>1.800.000</b>

### Additional Information:

1. The depreciation of non-current assets for the year 2021 was €200.000
2. On 1 January 2021 a machine was sold at a loss of €50.000
3. On 1 January 2021 a new plant was purchased for €1.000.000
4. Ordinary dividends paid during the year were €100.000
5. On 31 March 2021, 5% debentures of €100.000 were redeemed/repaid.

6. The 7% redeemable preference shareholders received their dividend in full during the year.
7. Interest on bank overdraft was €300.
8. Profit after interest but before tax for the year ended 31 December 2021 was €400.000.
9. The corporation tax for the year was €50.000.

**10. Net Cash used in Financing Activities was €200.000.**

**REQUIRED:**

- (a) Prepare for the year ended 31 December 2021 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) Prepare the Statement of Cash Flows, for the year ended 31 December 2021, in accordance with International Accounting Standard (IAS) 7. **(Marks 17)**

**Note: Show all your workings.**

- (c) Choose and write in your answer book the best answer given below. Only one answer is correct.

**Which of the following is a financing cash flow?**

- i. Purchase of shares in other companies for €25.000 cash.
- ii. Sale of land for €28.000 cash.
- iii. Issue of 2.500 shares for €15 each.
- iv. Purchase of equipment for €500 cash.

**(Marks 2)**

**Total Marks 25**

**GRAND TOTAL MARKS 100**

**.....THE END.....**