

# Leaving Certificate Economics Worksheet

## Taxation & The Budgetary Framework (Chapter 12)

Name

Date

### Instructions:

- Answer all questions in **Section A** and **Section C**.
- In **Section B**, answer **3** questions.
- In **Section D**, answer **1** question.
- Show all workings in calculations and use correct terms: **VAT, excise duty, PAYE, USC, PRSI, DIRT, progressive/regressive, incidence, fiscal policy, deficit/surplus, fiscal drag, crowding out, national debt, EU rules**.
- Questions are written in an **exam style**: define precisely, use diagrams correctly, and justify claims with economic reasoning.

## Section A – Short questions

Answer briefly.

(15 × 2 marks)

**A1.** Define **Value Added Tax (VAT)**.


**A2.** State **one** economic reason why the government might **lower** VAT during a downturn.


**A3.** Define **excise duty** and name **two** goods commonly taxed by excise.


**A4.** Distinguish between a **direct tax** and an **indirect tax**.


**A5.** Define a **progressive tax**.


**A6.** Define a **regressive tax**.


**A7.** What is meant by the **incidence of taxation**?


**A8.** State **two** of Adam Smith's **canons of taxation**.


**A9.** Distinguish between **tax avoidance** and **tax evasion**.


**A10.** Define **PAYE**.


**A11.** Define **USC**.


**A12.** Define **PRSI** and state its **purpose**.


**A13.** Define **DIRT** and state the **current rate** in the notes.


**A14.** Define a **budget deficit** and a **budget surplus**.


**A15.** What is meant by **fiscal drag**?


## Section B – Calculations &amp; interpretation (Answer 3 of 5)

**Each question:** 12 marks    (Workings + final answer + brief interpretation where asked.)

## B1. VAT calculations and policy interpretation

The VAT rates shown in the notes include a temporary fall in the standard rate:

Date effective	Standard	Reduced	2nd reduced	Livestock
1 Jan 2025	23%	13.5%	9%	4.8%
1 Sept 2020	21%	13.5%	9%	4.8%

A consumer buys a household appliance with a **pre-VAT price** of €820.

- (i) Calculate the VAT paid and the final price at the 2025 standard rate.

--

- (ii) Calculate the VAT paid and final price if the standard rate is **21%**.

- (iii) Explain, using **aggregate demand**, why a government might reduce VAT during a recession.


## B2. Income tax: PAYE and USC (2025)

PAYE bands (2025): First €44,000 @ 20%, balance @ 40%.

USC bands: First €12,012 @ 0.5%; €12,013–€15,370 @ 2%; €15,371–€42,662 @ 3%; above €42,662 @ 8%.

- (i) A worker earns €72,000 in 2025. Calculate **PAYE**.

- (ii) Calculate **USC**.

- (iii) Calculate the **average tax rate** based on PAYE+USC only.

### B3. DIRT and incentives to save

The notes state that DIRT is charged on interest earned and the rate is 33%.

- (i) A person has €2,500 in a savings account earning 0.5% annually. Calculate the **annual interest**.

(ii) Calculate the **DIRT paid** on that interest.

--

(iii) Explain how **higher DIRT** could affect consumption and economic growth.


#### B4. Carbon tax path and trend reasoning

The notes state:

- Carbon tax introduced in Budget 2010 at €15 per tonne of CO<sub>2</sub>.
- It rose to €20 the following year.
- The 2024 rate is €56 per tonne of CO<sub>2</sub>.
- Planned increases aim for €100 by 2030.

(i) Calculate the **increase** in the carbon tax rate between 2010 and 2024.

--

(ii) Calculate the **remaining increase** needed from 2024 to reach €100 by 2030.

--

(iii) Explain **two** reasons why a carbon tax may be criticised as **regressive**.


#### B5. Budget balance and policy trade-offs



A simplified budget (hypothetical) shows:

$$\text{Revenue} = \text{€}98\text{bn}, \quad \text{Expenditure} = \text{€}104\text{bn}.$$

- (i) Calculate the **budget balance** (surplus/deficit) and its size.

--

- (ii) State one method of reducing the deficit via **revenue** and one via **spending**.

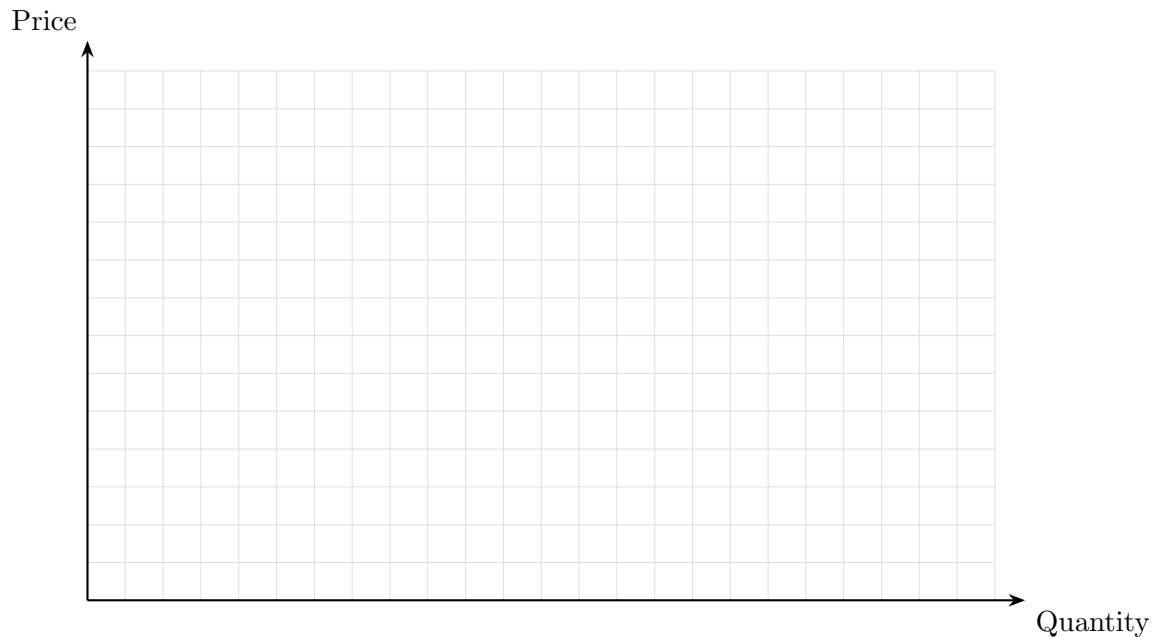

- (iii) For **one** method chosen above, explain **two** likely economic side-effects.


## Section C – Data & visual interpretation

### C1. Tax incidence, PED/PES and excise duties

The notes emphasise that **who actually pays the tax** depends on **PED** and **PES** (incidence of taxation).

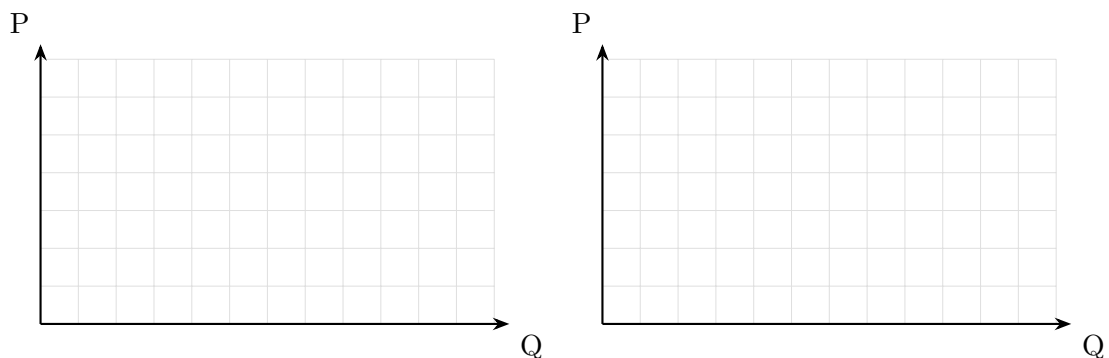
**C1.1** Using a demand and supply diagram, show an **excise tax** that creates a wedge between: **(i)** the price paid by consumers and **(ii)** the price received by producers. Label the wedge clearly.



**C1.2** Draw **two** small diagrams to show how incidence changes when:

- demand is **inelastic** (short-run petrol),
- demand is **elastic** (luxury good).

In each case, state **who bears most of the burden** and why.




## C2. Carbon tax and everyday life decisions

Use the carbon tax data points from the notes: 2010 (€15), 2011 (€20), 2024 (€56), 2030 (€100).

**C2.1** Plot a **line graph** of carbon tax (€ per tonne of CO<sub>2</sub>) against time using the 4 points above. Label axes and points clearly.



**C2.2** Explain how a rising carbon tax could change **two** household decisions (e.g. heating, commuting, car choice, insulation).


### C3. Revenue buoyancy and fiscal drag (stimulus table)

**Stimulus:** A government plans the following for the year, but actual outcomes differ.

	Planned	Actual
Revenue (€bn)	96	101
Expenditure (€bn)	100	99

**C3.1** Calculate the **planned** budget balance and the **actual** budget balance.


**C3.2** Using your results, explain what is meant by **revenue buoyancy**.


**C3.3** Explain why **fiscal drag** is described as **deflationary**.


#### **C4. National debt, EU rules and credibility**

The notes state: EU rules include **deficit**  $\leq$  **3% of GDP** and **debt**  $\leq$  **60% of GDP**. One example given is Ireland's debt/GDP at **108.2% in 2011**.

**C4.1** By how many **percentage points** did 108.2% exceed the 60% benchmark?

--

**C4.2** Explain **two** economic risks of a high national debt (use terms like **debt servicing** and **crowding out**).


**C4.3** Explain how persistent deficits could damage a country's **international reputation** and raise borrowing costs.


## Section D – Evaluation & discussion

**HL style:** balanced argument, correct definitions, relevant Irish context, clear judgement.

### D1. You are Economic Advisor to the Minister for Finance.

Outline the economic arguments **in favour of lowering income tax rates**. In your answer:

- explain how lower income tax affects **disposable income** and **aggregate demand**,
- discuss possible effects on **employment** and **competitiveness**,
- include **one counterargument** (e.g. inflation, imports, equity, revenue loss),
- finish with a clear judgement.


**D2. “A government should run a deficit whenever growth is weak.”**

Discuss this statement. In your answer:

- define **budget deficit** and explain how it can raise **aggregate demand**,
- outline **two positive effects** (growth/employment/services/redistribution),
- outline **two negative effects** (inflation/borrowing/crowding out/imports/unsustainability),
- refer to **EU fiscal rules** and credibility.
