

Economics Higher level Paper 3

16 May 2024

Zone A morning | Zone B morning | Zone C morning

Candidate session number

1 hour 45 minutes

Instructions to candidates

- Write your session number in the boxes above.
- You are permitted access to a calculator for this paper.
- Do not open this examination paper until instructed to do so.
- Answer all the questions.
- Answers must be written within the answer boxes provided.
- Unless otherwise stated in the question, all numerical answers must be given exactly or correct to two decimal places.
- You must show all your working.
- Use fully labelled diagrams where appropriate.
- The maximum mark for this examination paper is [60 marks].





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Please do not write on this page.

Answers written on this page will not be marked.





Answer all the questions. Answers must be written within the answer boxes provided.

1. Table 1 shows information from the balance of payments for Chile for each quarter (3-month period) of 2021.

Table 1: Balance of payments for Chile in millions of US dollars (US\$) in 2021

	First quarter (Q1)	Second quarter (Q2)	Third quarter (Q3)	Fourth quarter (Q4)	Total
Balance of trade in goods	4145	4665	933	785	10528
Balance of trade in services	-2326	-2602	-3298	-3753	-11979
Income	-4286	-5015	-4485	-4636	-18422
Current transfers	-221	-243	-19	50	-433
Foreign direct investment	2354	2478	-138	-3897	797
Portfolio investment	-609	12887	15950	2390	30618
Official borrowing	3499	-6085	-259	6053	3208
Reserve assets	-2557	-6086	-8684		-14321

(a)	(i)	Using the information provided in Table 1 , calculate Chile's current account balance for the second quarter (Q2) of 2021.	[2]
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	(ii)	The financial account balance for the fourth quarter (Q4) of 2021 was US\$7552 million. Using the information provided in Table 1 , calculate the change in reserve assets for the fourth quarter (Q4) of 2021. You must state whether reserve assets have increased or decreased.	[2]
	(11)	million. Using the information provided in Table 1 , calculate the change in reserve assets for the fourth quarter (Q4) of 2021. You must state whether reserve	[2]
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Turn over

Salmon farming in Chile

Salmon is Chile's most important food export. The value of salmon exports increased sharply in 2021, largely due to a recovery in the world price of salmon. This boosted economic activity and employment, creating opportunities for entrepreneurship and regional development.

Figure 1 illustrates the market for salmon in Chile. Dd is the domestic demand for, and Sd is the domestic supply of, salmon in US\$ per kg. Pw is the world price and Pw_1 is the world price after an increase from US\$5.20 to US\$8.40 per kg.

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Figure 1: The market for salmon in Chile





(iii)	Using Figure 1 , calculate the change in domestic spending on salmon in Chile as a result of the increase in the world price of salmon from US\$5.20 to US\$8.40 per kg.	[2]
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(iv)	Using Figure 1 , calculate the price elasticity of demand for salmon in Chile when the world price increases from US\$5.20 to US\$8.40 per kg.	[2]
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(v)	Using Figure 1 , calculate the social/community surplus in the salmon market in Chile after the increase in the price of salmon from US\$5.20 to US\$8.40 per kg.	[2]
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,	(vi)	Using an international trade diagram, explain how an export subsidy could be used to increase the quantity of salmon exports from Chile.	[4

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Salmon in Chile are bred in fish farms. Some of these farms have been criticised for using large amounts of antibiotics. Although the fish are kept in ocean-based farms, chemicals and other salmon by-products can spread. This threatens marine life in areas near the fish farms and can lead to antibiotic-resistant strains of bacteria which can infect humans, causing them to seek medical attention.

Some indigenous fishing communities are fighting for their traditional way of life. Salmon farms use the ocean, a common access resource, so intensively that there are far fewer fish available for local communities who rely on small-scale fishing for their livelihood.

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(viii)	Using an externalities diagram and the information provided, explain how salmon farming in Chile can result in market failure.	[4
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2. The economy of Türkiye has faced a number of challenges since 2018. Foreign investors have sold their financial assets, such as bonds and stocks. Türkiye's currency, the Turkish lira (TRY₺), has depreciated while inflation has risen sharply. However, the economy has somehow managed to grow. Türkiye has a strong business culture, with a large proportion of the population aspiring to be entrepreneurs. It has also benefited from supply-chain constraints in other parts of the world, which have created opportunities for Turkish firms.

Table 2: Economic indicators for Türkiye

	2020	2021	2022
Gross domestic product (GDP) (billion TRY₺)	5046	7207	
GDP deflator	182.74	235.20	
Consumer price index (CPI)	469.7	558.7	1003
Population (million)	84.34	85.04	

(a)	(i)	Using the information in Table 2 , calculate the real GDP per capita in Turkish lira (TRY₺) for Türkiye in 2021.	[2]
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	(ii)	Using the information in Table 2 , calculate Türkiye's rate of inflation for 2022.	[2]
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Table 3 provides information on the real GDP per capita for Türkiye and the real GDP per capita at purchasing power parity (PPP) in December 2021.

Table 3

	December 2021
Real GDP per capita (US\$)	13251
Real GDP per capita PPP (US\$)	31 252

	(iii)	Using the information in Table 3 to illustrate your answer, outline why GDP data is often presented with an adjustment to purchasing power parity (PPP).	[2
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[4]

(Question 2 continued)

Table 4: Development indicators for Türkiye (2013 – 2019)

	2013	2015	2017	2019
Gross national income (GNI) per capita (PPP, US\$)	23937	25766	27 553	27 984
Carbon dioxide (CO ₂) emissions (metric tonnes per capita)	4.19	4.48	5.13	4.76
Life expectancy at birth (years)	75.78	76.53	77.16	77.69
Expected years of schooling	16.46	17.32	17.98	18.34
Gini coefficient	0.402	0.429	0.414	0.419
% of population living on less than US\$5.50 a day (PPP)	3.00	2.90	2.10	2.70

(iv)	Using the information in Table 4 , explain one reason why an increase in real GNI per capita might have a positive impact on living standards and one reason why it might have a negative impact.
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In August 2022, Türkiye surprised many economists by cutting its rate of interest, despite an extremely high rate of inflation. The central bank had been expected to keep the interest rate at 14%, but instead lowered it to 13%, expressing concern about the possibility of slowing economic growth.

The Turkish currency has fallen more than 25% in 2022 as high inflation and deep concern over the central bank's monetary policy have prompted foreign investors to take their investments out of the country. Türkiye's policy contrasts with other countries where the central banks have raised interest rates in order to reduce inflation.





Türkiye reported a TRY₺1.1 billion budget deficit for June 2022, an increase of 24.3 % compared to the previous year. Government spending increased by an annual 87.1% in the same period. While transfer payments more than doubled to TRY₺8 billion, wage costs for government employees rose by an annual 58.7 %.

(v)	Outline why there is "concern over the central bank's monetary policy".	[2]
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(vi)	Using an exchange rate diagram, explain how a relatively high rate of domestic inflation is likely to affect the exchange rate for the Turkish lira.	[4]
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Türkiye earned more than US\$2.6 billion from exports of carpets in 2020.

Table 5: The exchange rate for the Turkish lira (TRY₺) per euro (EUR€) from January to August 2022

	TRY₺/EUR€
January 2022	13.1
April 2022	14.7
August 2022	18.1

(vii)	The price of a Turkish carpet, exported to Italy in August 2022, was TRY₺ 120000. Using the information in Table 5 , calculate the price of the carpet in euros. Assume no indirect tax has been added.	[2
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When carp ndirect tax (viii)	ets are sold in Italy, the seller must add indirect tax to the price. The rate of in Italy is 22%. Calculate indirect tax collected on the sale of a more valuable carpet sold for EUR€11316 (including indirect tax) in Italy.	[2]
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