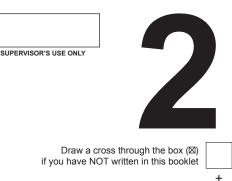
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NZQA

91222

Mana Tohu Mātauranga o Aotearoa

New Zealand Qualifications Authority

Level 2 Economics 2024

91222 Analyse inflation using economic concepts and models

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Analyse inflation using economic concepts and models.	Analyse inflation in depth using economic concepts and models.	Analyse inflation comprehensively using economic concepts and models.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–16 in the correct order and that none of these pages is blank.

Do not write in the margins (1/1/1/2). This area will be cut off when the booklet is marked.

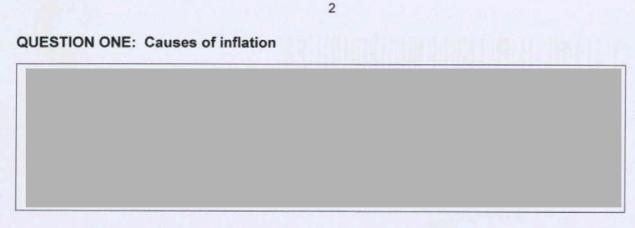
YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.



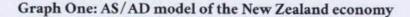


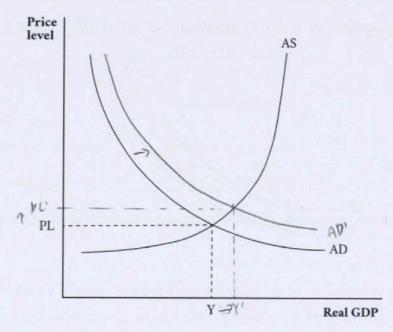
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(a) On Graph One below, show the impact on aggregate demand of the Fieldays event being held in the Waikato region in 2024.





(b) Explain the impact on inflation of the Fieldays event being held in the Waikato region in 2024. Refer to Graph One in your answer.

Fieldays events produces 2000 full-time jobs. There is now more employment in the economy which increases households income. There is more disposible income that households can spend on Goods and services. This increases consumer spending (C). There is also an increase in export receipts as Fieldays events attract overseus guest. They will spend overseus currency to New Zealand Pollars to spend during their time in New Zealand oh accommed accomodation and four food. This increases export receipts (X)

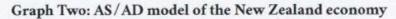
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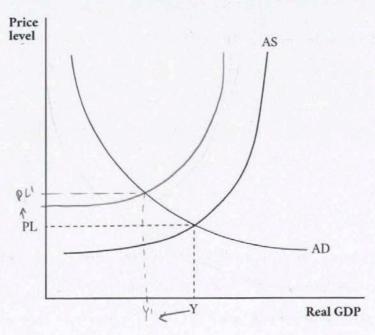
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12.2.2.7

AD = C+I+G+(X-m). Since C and X increases, aggregate demand increases. The aggregate demand curve will writt nyht from AD to AD'. This is ultimer price level increasing from (PL to PL'). This is demand-pull influetron.







(d) Explain the impact on inflation of Cyclone Gabrielle and the higher production and insurance costs for New Zealand businesses. Refer to Graph Two in your answer.

cyclone gabrielle resulted in destruction of apple crops and key infrastracture. Because to & ATTATE BUSINESS will have to spend who extra money to fix the crops infrastracture to produce applies again. This to cause the cost of production to increase for farmers. Moreover Moreover, other primary sector businesses also have after the datruction caund by the guone increased insurance cost? This also increases the cost of production for business. The increase in cost of production near reduces profit margins for businesses and makes the business less profitable. They Aggregate supply decreases. from the aggregation causing the aggregate supply curve to shift up left THEF FORTHER TO MININIAIN protel margins, from Asto AS business raves prices forent canning price level to increase from (PL to PL'). This is cost - push inflution. Discuss whether Fieldays or Cyclone Gabrielle is likely to have had the more significant impact on New Zealand's current inflation rate. Refer to Graphs One and Two in your answer. The cyclone Gabrielle is likely to have a more significant import. 1410 + 20064418 + after B mote businesses in in the oran

(e)

(AP) The increase in aggregate demand from Fieldays is caused by increased spending for the event by local and overseas individuals. Only 2000 jobs more are a created by the event which is not a significant number. The increase in consumer spending curred by the increase spending by in employment by the event would not be that large either. Attaction of overseas quests is only a small part of our export receipts. Here The number of overseas queits coming to New Zealand because of the event is also not going to change the on the number of touriths visiting New Zenland significantly. This results in a small invalue in exponenciepts of ne to the tittles were relatively small inwealle in tourn in Now Zeal and breakle of the event. The total or the part spending by the for the New by the event 250 m. 408, J Sharzon porch tothe The Fielduy Euland ecohorm is generate 230m and once off energy ever event is azong held annually so it will only The shat Ball and an AD to AD This causes a Small shat to AD to AD and hence a smaller invente a price level from pt pt to pL'. relatively

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1.1.1.1

whereas the trap cyclone gabrielle atteds a major export (apples) that generalis \$900m in export receipts. A major exporter of apples (Hunte's Bay) Apples to have suffered a 25% destruction in crops and durage to key famming infrasture. This

signationally reduce the apply of apply and the a lot of money to

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fix there forming infrasture as they are often expensive. This moreases the cost of production significantly. The cyclone does not just affect the form for the industry, cyclone

It curves preserve other primary-sectors businesses a way the country to to experience

a rise in insurance cott. This attects a ro wide range of businesses and firms as experience a rise in costs

to of production. The cyclone affects a mujor they be to same apres that

osports source of export recepts and a rile in & cost of production in a many other is significant business. Thus the decrease in aggrigate supply Astronomy ANTO ASto AI')

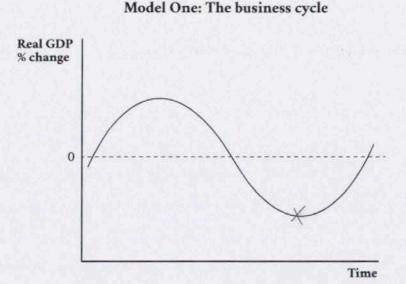
in graph 2 is much more than the muleage in AD ADDA From (AD to AD').

The increase in price level caused by cyclone aggregant from pL to PL'. There is a significant

Hence the cyclone had a more significant impact on inflation.

QUESTION TWO: Quantity theory of money and a recession

(a) Identify and mark with an X the point on Model One that best represents a recession.



(b) State the components of the quantity theory of money.

- M: money supply
- V: Velocity of circulation
- P: phile level
- Q: real output
- (c) Explain why the velocity of circulation is likely to decrease during a recession.

Puring recession, consumer and businesses are less optimittic and about the and expanence reduced consumer and business confidence. Futures consumers are less optimistic in future weiges and job security while business are less optimistic about future vales and profits. Velocity of circulation is the tate in which money is spent in the economy. Since consumer and biomests the rate iss confidents they are more careful about expenditure vesulting in a decrease in velocity of circulation.

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(d)

Assuming all other variables remain constant, use the quantity theory of money to explain how a decrease in the velocity of circulation will impact inflation.

Quantity theory of money states that MV = PQ. When all other variables

decrease in the price level. This causes deflution which is a general decrease in

price level.

Some experts argue that the New Zealand economy could experience a recession across the next two years, with a significant decrease in output predicted.

(e) Use the quantity theory of money and the business cycle to explain how a recession may impact overall inflation.

(3 19 manor may

In your answer, include:

- why real output may decrease during a recession
- how the change in velocity of circulation as well as real output will impact the price level in the economy.

During a recession, less youds and services are produced by the economy leading to a devertie in Real GDP, hence output. Bridger decession, cohstance and bourness * Confidence is low and they are less willing to spend money on unnecessary goods and services. This results in reduced sales and revenue for bournesses that sell those goods and services. The building have Dire to lower demand, they may have to lay off workers have to produce losser goods and services detailed burness contract and lay off workers. the results in a descape in services due to lower domand for b goods and service.

MAR A MV = PQ. During a releasion, velocity of circulation decrease due to lower The answer space continues on the next page >

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consumer and business confidence. There and also be a sognificant decrease in real control of the and the and the goods and services in the economy.

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The synthesist decrease in real output will cance inflationary plasar as the same unnount of money is change former goods and since money supply is assumed to be constant.

The change in decrease in v and & Q affects the price level depending on the magnitude of the decrease. If the decrease in velocity of virus philan is more than the decrease in output, this vill cause and decrease in price level. It is not a proportionale decrease because solve of the imput i absorbed by the decrease in real output.

price levelfor the equation MV = & P& to hold the true.

It valously of contention decrease by 2% and real output decrease by #5%, the procelevel have to increase by 3% for 12 mv = pg to hold true

KR A

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QUESTION THREE: Impacts of inflation

New Zealand's annual inflation rate in 2023 was 4.7 per cent. This is a decrease from the annual rate in 2022, when it was 7.2 per cent.

(a) Define inflation.

Inflution is the genoral increase in price level

- (b) Explain whether workers on the minimum wage would prefer a lower or higher inflation rate. Workers on minimum wage would prefer a lower or higher inflation rate. In thation are inflation rate. In that are on minimum waye will experience a decrease in the purchase power of their & waye <u>seat</u>-reducenty. Their creat wage reduces during inflution. The Angles They are able to buy lower goods and subservices than before. They will the a decreased standard st living it there years and the minimum waye is not raise to maintain the purchasing power of their income. They that are on minimum waye are that have inflictions. They are done to be and oppoint to be maintain the purchasing power of their income. They will the on minimum waye are that have infliction influences on essential youd and services it more how the ids and may & will out an essential youd and services it more infliction rate is too high.
- (c) Explain whether savers would prefer a lower or higher inflation rate. Suvers mill prefer a low inflution rate. Inflation errodos the purchasing power of money. savers will expression find there are the 'real' raine of their savings decrease decreasing during inflation. The same amount of money is able to buy less goods and services than before. The higher the inflation rates the man higher the reduction of purchasing power of their savings.

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New Zealand's annual inflation rate of 4.7 per cent in 2023 was higher than all of our major trading partners. Annual inflation was 4.0 per cent in the United Kingdom and 3.1 per cent across the European Union.

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(d) Compare and contrast the impact of New Zealand's higher inflation rate on New Zealand importers and exporters to the United Kingdom and the European Union.

New Zealands hav the highest inflution Late forthe of 4.7% decan followed by United kingdom at 4.0% then European Union at 3.1%. The

Exporter will suffer as they face "increases" cott of production relative to the produces mal raije in United Kingdowi "and the European Union. 78 New Zenlund Exposed und and the European Union. 78 New Zenlund Exposed und and and the por priles to of the exports to maintain profit margins. The rule in pulles of our exports are higher than those produced in the st the UK and European Union. This makes the expirit fell total prile competitive overleds. In the the overled consumes are less wilm to buy our New Zeiland products resulting in reduced sulls and have to accept profits - If exported done not raise price, they will experience a cut in prufit want margins. and the exporting business is less protituble. Since inflation rate is high in the UK than the unt European Union, exporters that export to the UK wil be shynting better oft as their exports are more price competitive there. The million rate of the UKA with New Zenland in smaller than the gap between Hew Zealand and the european which. This cance the gap in prices to be the imaliter in the UK madel thun the european union market. There still is reduced rules but 1031 significant when exporting to the U/c due to the price levels of 14er Zeculand exposts being more price competitive with the UK's goods and services.

inputer benefit. since New Zenland experiences the highest influences rate. the prices it youls and services domentically produce will have a greater nic in prices them the imports from UK and the european union. This makes the imports to more price

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competitive in New Zemand and New Zemand consumers will be were willing to buy those protocold imposes than been local goods. The miredic sales and reveal revenues to impoter. Similiarly, the Enropean Union will benefit the importers that input in rate in Europe. They will have the least protoc increases in prile levels and the products made in the european union will be more price competitive than before.

Acknowledgements

Material from the following sources has been adapted for use in this assessment:

Question One

University of Waikato. (2019). 2019 Fieldays in New Zealand: Economic impacts for Waikato region and New Zealand. https://www.hugheseconomics.com/_files/ugd/8f4bb1_d963cabb753b4d7c8aab6f89908b32fd.pdf

Uys, G. (2022, March 15). Fieldays' new November date will come with big economic cost. Stuff. https://www.stuff.co.nz/ business/farming/128046830/fieldays-new-november-date-will-come-with-big-economic-cost

Ministry of Foreign Affairs and Trade. (2023, March). Cyclone Gabrielle's impact on the New Zealand economy and exports - March 2023. https://www.mfat.govt.nz/en/trade/mfat-market-reports/cyclone-gabrielles-impact-on-the-new-zealand-economy-and-exports-march-2023. CC-BY-4.0.

Question Three

Stats NZ. (2024, January 24). Consumers price index: December 2023 quarter. https://www.stats.govt.nz/information-releases/ consumers-price-index-december-2023-quarter/. CC-BY-4.0.

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Subject: Economics

Standard: 91222

Total score: 23

Q	Grade score	Marker commentary	
One E7		The AD and AS explanations referred to components of AD and producers increasing prices to maintain profit margins respectively.	
	The candidate provided a detailed explanation of why the increase in costs of production would be wider ranging and impact inflation more than the localised / one-off increasing in spending by comparing the effects of each event and specifically referring to relative changes in both graphs.		
Two E8		The candidate explained a reason for the decrease in consumer spending that decreases velocity of circulation.	
	E8	They used the quantity theory of money equation to explain that a decrease in velocity of circulation would decrease inflation by a proportional amount.	
	They provided a thorough explanation of how both a decrease in the velocity of circulation and a decrease in real output affects inflation, using the quantity theory of money, including reference to proportional changes of the variables.		
Three	E8	The candidate explained why minimum wage earners and savers both prefer lower inflation rates with reference to purchasing power.	
		They explained, with reference to price competitiveness, that New Zealand importers benefit, and exporters are worse off, from New Zealand having relatively higher inflation rates compared to trading partners.	