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91403



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Mana Tohu Mātauranga o Aotearoa New Zealand Qualifications Authority

Level 3 Economics 2024

91403 Demonstrate understanding of macro-economic influences on the New Zealand economy

Credits: Six

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of macro- economic influences on the New Zealand economy.	Demonstrate in-depth understanding of macro-economic influences on the New Zealand economy.	Demonstrate comprehensive understanding of macro-economic influences on the New Zealand economy.

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 2–14 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.

Excellence

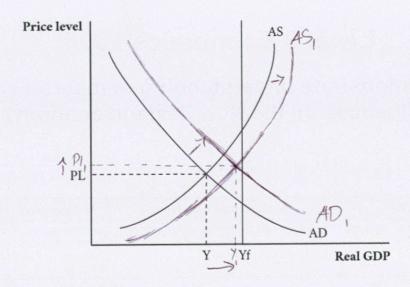
TOTAL

QUESTION ONE: Migration and monetary policy

Immigration surge threatens smooth path to lower interest rates.

Immigration can have both positive and negative effects on economic growth and price stability. While recent gains in net migration have potential to help ease wage costs for businesses (reduce wage pressure), there is concern that it may heighten demand pressures in the economy, especially for housing. This could lead to at least one more hike of the official cash rate (OCR).

Graph One: The New Zealand economy



- (a) (i) On Graph One above show the effect of higher net migration by shifting both curves. Fully label all changes.
 - (ii) Referring to the changes to Graph One above and the resource material, explain the impacts higher net migration may have on economic growth.

An increase in net migration will increase consumption spending (c) as the anignants county to New Zealand will have to set up their haselables and live libered buy purchesing goods such as white were, cars, or houses. As cisa comprend of AD, AD increases from AD to AD, An increase in immigration were that there is an increase in the supply of shilled belover which will be able to deprose the cost of wags for skilled jobs thosely reducing the cost of production for firms. They will come many plats and therefore were prevenuentable warms that they will be incentioned to increase their production to maximise the for those firms because more afficient.

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profits, resulting in As also increasing from As to As,.

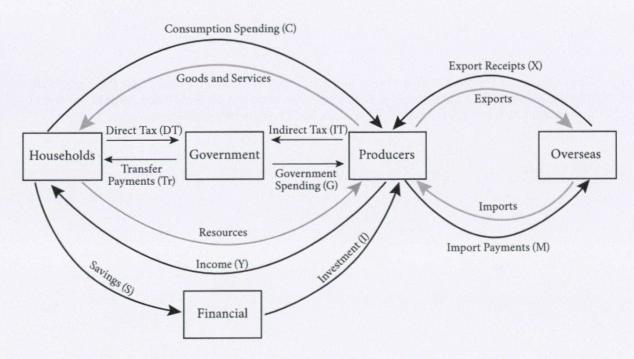
Increases in both AD and AS will result in an increase in the Real GOP from Y to Y, which will as result in economic growth. on increase in economic growth.

(b) Referring to the changes to Graph One and the resource material, explain how the higher net migration could affect price stability. In your answer, state the current Policy Targets Agreement and explain how this may impact the Reserve Bank's monetary policy decisions. An incapage in pet mignerhan will result in an increase in consumption spending as tracedor new households will wont to set up their lives lay purchasing items such as whitevery cars, or houses which regults in on increase in consumption spending (C). Cis the largest component of AM AD so AD increases from AD to AD, Increases in nut mignation will also makes increase efficiency for firms as Cost of production has decreased due to a decrease in unge costs, ausing firms to have increased profits this AS increases from AS to AS,. While on excesse in As will preduce the in-Hatimory pressures on the economy for scorce resources, the increase in AD to AD, is greater this there due to C' being the largest comparent of AD so there Still will be awall isosofel demand-pull intertian, resultingin Con increase in the price level from PI to PI. The current pality toget agree ment set that the negerne bank their to beep the level of explaining between 1% to 3% one the medican testing, with a focus on the midpoint of 2%. Cornenty, the rate of intation in New Zealand is 2.27, which fits the palicy length agreement bend of being beforem 1% to 3%. However, if the immigration ange that New Zealand leeses is substantial then there will be an inoreger in the Economics 91403, 2024

QUESTION TWO: Fiscal policy and economic growth

Rising inflation has led to calls to change the tax brackets in New Zealand to reduce bracket creep and help with the rising cost of living. A report states New Zealanders would be paying up to \$6 000 less tax a year if tax brackets had been adjusted with inflation. Considering only those employed in the economy, this could lead to over \$17.5b less tax being paid. This could also lead to a larger increase in economic growth due to the multiplier effect.

Model One: A circular flow model of the New Zealand economy



(a) Use Model One and the multiplier formula [1/(1 - MPC)] to calculate and explain the final effect on real GDP and economic growth.

In your answer, assume changing tax brackets could lead to a \$17.56 tax cut and that the marginal propensity to consume is 0.83. Just to charges in the locality of the degreese of the direct for flow from paycholds to the garment which wears that hasseled disposable aream would increase, especially for proble income corners who was an inam likely to be gas offected by the charges in the tex brockets. In anales in household blisposable income will been that there is an income in the consumption spending flow our from large bots to proclears, thereby increasing the previous and policy for producers. As Producers,

will see increased besides confidence and will moreose their itself ment spending flow and weil also increase their proceed flow incan flow to brage tools (y). This is to The 17.5 billion dally fex cert which it tex would be ce with about is now within the circular flow of the conony. The multiplier effect is besed on at the premise where or initial injection into the conomy will become even offector real GOP, where by are persons income which is spent becomes another in

Rather than providing tax cuts, the \$17.5b could be spent on infrastructure, such as improved transport, education, and healthcare facilities. This could allow the economy to accommodate a larger population and also lead to a much larger increase in real GDP and economic growth.

Explain how infrastructure spending of \$17.5b will result in a larger increase in real GDP and economic growth. Refer to Model One in your answer. Infrastructure spending worth \$4 \$17.5 billion will be after to a farm of government spending where there will be constroses

in the gracer went to produce & G Hav. Producers will want to aguire more labour to fulfil these goods thereby increasing the devited demand for labour and will increase the (labour) posource that from house holds to come produces along with an increase in the income money from from producers to the horseholde, thouly Furthering there is also increasing hasehold disposable incan which will be able to impose increase consciuption spending (tow. 1450)

apolacers will want to in cross their musturent spending for aprital goods which means that there will also be an increase in the I'warey flow from financial institutions to proclucers. As this imports C, I, and G, along with the colded affects on the economy on based on the multiplier effect where are persons income spent becomes

another's sucous so on and so forth, the sinihal singarenment infrestructure spending withhe of \$17.5 billion will really ince

Ales compered to the tex cuts which all jupoct are feeter of AD (c), the intestiveten speech of wald lead to g reater account a south of the next page)

C, I, and Br, which would lead to g reafer economic growth. Fortherewore, C, I, and Br, which would lead to g reafer economic growth. Fortherewore, Economics 91403, 2024 Whall of the fex cost will be greater of 00072

(ii) Explain why increasing spending on infrastructure could also create a larger (more sustainable) increase in economic growth in the long run, compared to tax cuts. Refer to Model One and the resource material in your answer.

The jurged good upon inferes trucker will increase the potent productive agreeity of the cononey is it will allow the accomy to Sustain were a larger population, which can make the economy less libely to be impacted by light press with inflation due to the increase in the availability of productivity of noney finus; strong fertherman, the government spending on hospitals and advaction mars that variers are libely to be were spilled and are also less lipity to become ill for extended periods a which will not be immediate but a any term position impact on systematile economic growth. Even though the While the fex out increases disposable income and leads to an increase in the cascomption spending flan there is dis MB of 0.17, which wears that some of the tex cut will go still go leave the Circular flow as a with drawal. Finally the degrees in the Gaevaruent investment instead inspects corruption flow, instead incheses corruption flow. These improve musts in infrastructure, if down in tourist areas could also allow for wore & export receipts on, and way attract increased migrants as the investment supports a larger population. Fixelly the fox cuts will reduce the government spece ting belonce by \$17.5 bildian which could have reduce the governments ability to undertake fature guernment spendily mesures, without ordif they do so then there will be en increase in the gavenn debt as they may runa budget deficity, which can be bernifed. Tox cuts only in part the assurption flow, while along butterwan garnout investment flow, investment flow, and consumption flow, arel potentially export vecespt from is possifically impacted. Also, threwill be an increase in het social welfer from the garerants projects by impraving healthcare encledercalisant arleanes which nears that overally infrastrese the spending could be tube very likely more sustain able economic growth compered to tex cuts.

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New Zealand has recently signed a free trade agreement (FTA) with the <u>European</u> Union. While FTAs like this can lead to increased economic growth, they can also lead to increased spending on imports, reducing the multiplier effect of domestic fiscal policy.

(c) Explain how increased imports could reduce the impact of the multiplier and, as a result, the final impact either tax cuts or infrastructure spending could have on real GDP and economic growth. In your answer, refer to Model One and the multiplier effect.

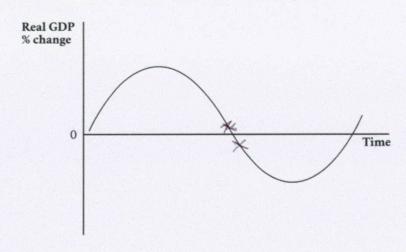
New Zoodend free trools egreement with the Est will meanthert there are reduced berniers to free trace by the remard of enteriffe, for excuple, which will increase the price cause tificeness of importaining firms within New Zealand which are will increase demand for imports, there fore increasing import payments. Import payments are a withdrawal from the circular flow madel as the maney flow Cares from producers b 'averses'. Elease For tex cuts, on increase in hasehold disposable income may not constitute to donestic consumption spending. Fisted, the house holds, especially after the FTA, will have increased demand for export imports increasing import payments, and like sourrops are a with drawal from the circular flow so they will awall have a vodeced MPC x as Carsum pHan spendily wagegoc will be rebutively less compared to import pay wents, when will lead to an increase in For infragtructure Spounding, firms would benefit from decreased ast of production from You waterights imparts if they game from the EU but they will rederce this dans he consumption for rew materials which means that there will be less income for the other dans the firms as well which will lead to on areall decrease in the MPC, and therefore the unit tipher will not be how as by of an import on the increase in the real GIDP and there for economic growth thereon the commic growth the commic growth the commic growth of the committee Real GEDP as export receipts will increase were compared to import payments osthe EU hosa larger population for then NZ sodemend for NZ exports increase and firms will utilise economies of scale, therefore there will be an order to the well-tiplier is decreased shightly the economic growth, extensif the well-tiplier is decreased shightly the economics 91403, 2024 to its assess in import payments.

QUESTION THREE: Internal influences on inflation and employment

Economic activity declined in New Zealand for three out of four quarters from December 2022 to September 2023. On a per capita basis, economic activity fell for all four quarters.

(a) (i) Based on the resource information above, identify and mark with an X on Model Two the likely position of the New Zealand economy in September 2023.

Model Two: The business cycle

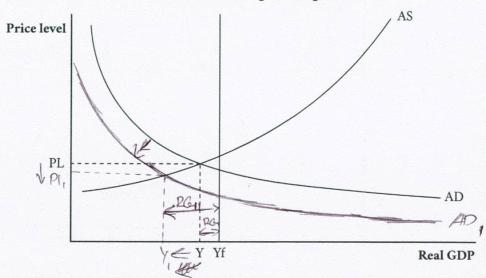


(ii) Explain your choice of location of the New Zealand economy on Model Two.

The Sacution of the New Zealand economy was in an acomic down term phase are there was 3 act of four quarters which had degreesed economic growth which mans that there were of east two Consecutive quarters of a decreose in economic oxfinity which mans that there was a recession. A recession is chocale said by law acce begins profite so law bushess confidence chay without decreose in economic and therefore a decreose in economic oxfinity which had acceptable in economic appropriate ampliturent and therefore a decreose in economic consumer confidence, they the New Zealand economy is in a dawn term phose.

There is a "backfiring of the wealth effect underway" whereby lower house prices are leading to lower household spending.

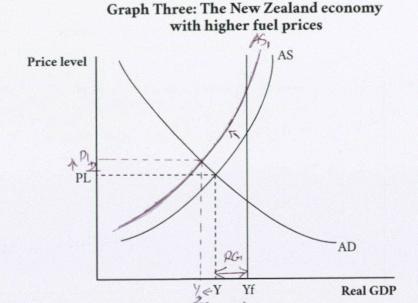
Graph Two: The New Zealand economy with falling house prices



- (b) (i) On Graph Two above, show the effect of falling house prices by shifting one curve. Label all changes, including to the recessionary gap.
 - (ii) Explain, using the changes you made to Graph Two above, the effect of falling house prices on inflation and employment.

Followy have price men flat everythy economic ceters will not be able to borrow as much agains the value of their have, which is clearesing, to purchase other assets such as houses as a far other goods. This results in a decrease in answerption spendingle), which as a comparent of AD, which adecrease in AD from AD to AD, which adecrease will result in a decrease in AD from AD to AD, which adecrease will result in a decrease in Real GDP from Y to Y. As growthe there is less real adjust, firms base less star derived demand for labour which cases an increase in unemployment from Y f-Y?. Also, as this reduces an itemet the from Pl to Pl, and there will be as the economy less an increase in the granting egacity from RG to RG, foresting thes there is less capetition for scorce resources and in flection is decreasing, and depending an the economic steaches the results are the disinflation or deflation.

Fuel prices have risen since the fuel tax discount ended.



(c) (i) On Graph Three above, show the effect of rising fuel prices by shifting one curve. Label all changes, including to the recessionary gap.

(ii) Explain, using the changes you made to Graph Three above, the effect of rising fuel prices

on inflation and employment.

An ingresse in the feed prices dece to the remaind of the Red levy ingresses the cost of production for firms which wears they have reduced profits revenue and there fore profits. To manked no profits firms will reduce production resulting in a decreose in As from As from As to As, which couses a charact in the real grop from x to You, Shawing a decreose in economic growth. Althe Adacreose in Pearl GoD shows less anderived deward for fallowings from are producing less that these is an increase in unauplayment from AG, (Yf-Yp). The increases in the costs of production result in an increase in the price fewer from PI to Plaz I which shows cost-push inflation and Thus, rising feel prices result in degrease in employment and increase in inform.

(d) Explain which of falling house prices or higher fuel prices will have a greater impact on inflation and employment. In your answer, refer to the changes you made to Graph Two and Graph Three.

Higher feel prices have a greater impact inflution and the employment companed to felling house prices. tabling house prices affecting which is the largest compared to there fore AD decreases the from AD to AD, At forms As real GOP decroses and firms have less derived deaund for Cabour, employment will decrease. However, fuel prices affect all businesses as they experience transporterests which wears then the import from cost of production for all finne will be greater such that the decrease of AS to AS, is greater than the decrease of AD. This wears that the terresse in wemployment for the pries is greater as RG, is greater on graph 3 is porter then the RG, on graph three which means that the will have a greater surport on the employment. are is a necessity required enda etrestegic How while makes it webstic their impact all goods within the economy compared to felding have prices which is besed as a "bock kining weath effect" which means that accell only the the Carsupplian spanding degrosse, while being the brygest comparent of be as significant at decressing the Price level as the decrease in the consumption will come hiele inche covers who there are with numerous assetts such that they impact the walth a Heart but only webe proportion of the ecany in total. Thus, the the cost pugh influin be impacts and with the fuel prices can also be a greater correjosit could go regulitely impact prices lebility which is to mentern inflation

Extra space if required. Write the question number(s) if applicable.

Write the question number(s) if applicable. Exestion (ne b) price level and therefore the war of inflation such that the inflotion verte could increase over the PTP's upper limit of 3%, which would not meet the granulet god of price stability. Comerly, the OCR get by the nouse back is at 4.75%, and if the reserve back believes that the migrolion suge will be substantial such that there will be on awall invesse in the price land whole could go above the 3%, top band, then they may increase the DCR, which will then itsources the ost of borrowing and ingreasing the newsce for seeings so that the base holds and lines wald be dis canoned from casuption general (c) appreciation of NOD, which would describe wasce not exports, while making lost of production samelast chaper. (page 13) Elestion Two of persons irran even that, which is also spent so on so forth Thus, for Ormanginal proposerry to consume of 0.83, theofthe ititied \$17.5 billion i'won, \$14,525 billion becaus iwan for

persons inou sour flosts, which is also spent so on so forthe Thus, for a worginal proposity to consume of 0.83, the of the initial \$17.5 billion inour, \$14.525 billion becaus income for other economic actors. They he for the total effect of them l'hydrer con be calculated by interpe, where 1-0.83 wears the well-power is approprietly 5.88, which weens that the initial injection of \$17.5 billion will result the in the HDP growing by a total of 1/2 \$102.94 billion, which will pesult in economic on impose in economic growth.

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QUESTION

Question 3

between the 1% to 3% acer the trightern. An increase in full prices which impact the cost of production for a almost off gazes will them that the increase of the price lead from PI to PI2 in 08t-push inflation which could rich not use from the gasorment goods of inflation day with its vola tility as it is based on international markets would be a greater concern for the sure least gawwent compensed to the smaller devesse in the price least from PI to PI, in the fam the fall in have prices a smally the days and the impact in the price lead from PI to PI, and the increase in the price lead on PI to PI2 its due to cat-push in the trian is man impose that and significant composed to the champion the Shan by RG-1 in graph 2 and the shah cleases in Inflation shan by supply from PI to PI, in graph 2, such that the new cooling has a greater impact on in the time and employ went composed to balling house prices.

accestion are (continued from page 12)

b) As An decreases and As increase slightly, there will be a nowall derease in fact output to the and a larger clearness inthe inincletion, threby potentially making homes more affordable who adopted adopted and other goods more affordable, threby achieving its purpose of making the economy obser to being price stable (impraing price stability.

Acknowledgements

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

Question One

Puller-Strecker, T. (2023, November 30). Immigration surge threatens smooth path to lower interest rates. *The Post.* https://www.thepost.co.nz/business/350121386/immigration-surge-threatens-smooth-path-lower-interest-rates.

Question Two

Walker, R & Sothcott, J. (2023, February). Inflation and personal tax bracket creep – a bigger picture. https://www.deloitte.com/nz/en/services/tax/perspectives/inflation-and-personal-tax-bracket-creep-a-bigger-picture.html. Stuff. (2023, February 10). Stuff. Here's how much you'd save in tax if brackets had moved with inflation. https://www.stuff.co.nz/business/money/300803072/heres-how-much-youd-save-in-tax-if-brackets-had-moved-with-inflation. Stats NZ. (2023, November 1). Labour market statistics: September 2023 quarter. https://www.stats.govt.nz/information-releases/labour-market-statistics-september-2023-quarter/, CC BY-SA 4.0.

Question Three

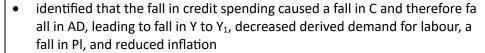
Stats NZ. (2023, December 14). Gross domestic product: September 2023 quarter. https://www.stats.govt.nz/information-releases/gross-domestic-product-september-2023-quarter/, CC BY-SA 4.0. Cann, G. (2023, March 29). What happens when housing's 'wealth effect' dries up? Stuff. https://www.stuff.co.nz/business/131611087/what-happens-when-housings-wealth-effect-dries-up.

Subject: Economics

Standard: 91403

Total score: 22

Q	Grade	Marker commentary	
٠,	score	Warker commentary	
One	E8	 The response was awarded an E8 because the candidate: completed the graph fully correct identified the Increase in C with examples and the impact on AD explained the increase in skilled workforce decreases COP and its impact on AS explained the increase in both AD and AS leading to an increase in Y to Y₁ being an increase in real GDP so there will be economic growth stated the increase in AD was greater than the increase in AS so there will be an increase in PI causing inflation greater than 3% stated PTA (Policy Target Agreement) explained that the Reserve Bank increases OCR and the consequences on AD to reduce demand pull inflation. 	
Two	E 7	 The response was awarded an E7 because the candidate: identified the multiplier and calculated the increase in Real Gross Domestic Product (RGDP) explained the concept of the multiplier and applied it to the reduced tax scenario referred to the model identified infrastructure as a government injection into the CFM recognised that the injection in infrastructure will not have the savings leakage that the tax cut will have as it goes directly into the producer sector. The candidate also referred to the resource material and correctly identified: the increased capacity and wider impact (G, I, T, further jobs, and Y and C ongoing) of infrastructure compared to tax cuts, which only impact consumers initially that better education and health care improve quality of workforce that an increase in desirability of an area increases the population and the 	
		 potential workforce the increase in stimulation from tourism etc., the increase is ongoing The candidate also: compared tax cuts, which reduce Government spending (G), with ongoing issues for part (c), recognised that import payments will increase and are a withdrawal and therefore there is a reduction in the impact of the multiplier. correctly explained that cheaper imported raw materials could decrease COP with ongoing advantages explained that increasing export receipts could also improve the economy 	
Three	E7	The response was awarded an E7 because the candidate: correctly marked X completed the graph correctly and marked the change in real GDP	



 explained an increase in COP and reduced profitability with examples: an increase in price level, so inflation and derived demand fall resulting in an increase in unemployment.