No part of the candidate evidence in this exemplar material may be presented in an external assessment for the purpose of gaining credits towards an NCEA qualification.



91224



NEW ZEALAND QUALIFICATIONS AUTHORITY MANA TOHU MATAURANGA O AOTEAROA

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# Level 2 Economics, 2015

## 91224 Analyse economic growth using economic concepts and models

2.00 p.m. Thursday 12 November 2015 Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence	
Analyse economic growth using economic concepts and models.	Analyse economic growth in depth using economic concepts and models.	Analyse economic growth 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 2-11 in the correct order and that none of these pages is blank.

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### 2

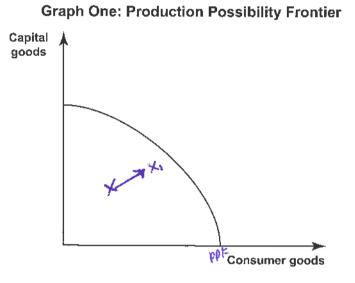
### QUESTION ONE: PRODUCTION POSSIBILITY FRONTIER

The unemployment rate, as measured by the Household Labour Force Survey (HLFS), has been trending downwards from 7.3% to 5.4% over the period September 2012 to September 2014.

Sources (adapted): http://www.parliament.nz/en-nz/parl-support/research-papers/00PLEcoRP2014011/ unemployment-and-employment-statistics-the-household-labour

http://www.stats.govt.nz/browse\_for\_stats/income-and-work/employment\_and\_unemployment/ HouseholdLabourForceSurvey\_HOTPSep14qtr.aspx

(a) (i) Identify ONE point on Graph One below that represents unemployment. Label the point with an X.



- Explain in detail the impact of an increase in Real Gross Domestic Product (Real GDP). (ii) In your answer:
  - on Graph One show the impact of an increase in Real GDP
  - explain in detail how the increase in Real GDP will affect economic growth
  - refer to Graph One

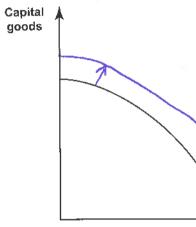
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- Compare and contrast the impact on economic growth of an increase in Real Gross (b) Domestic Product (Real GDP) with an increase in Productive Capacity. In your answer:
  - on Graph Two show the impact of an increase in Productive Capacity

  - has when compared with an increase in Productive Capacity
  - refer to Graph One and Graph Two.

### **Graph Two: Production Possibility Frontier**



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## QUESTION TWO: THE IMPACT OF CLIMATE CHANGE ON ECONOMIC GROWTH

One view of the impact of climate change on the economy is that it will provide business opportunities as households, business, and the Government increase spending on protection from its worst influences.

Explain in detail the impact of climate change on economic growth in New Zealand. (a) In your answer:

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- explain in detail the impact that you have shown on Graph Three.

Graph Three: AD/AS model of the New Zealand economy Price level AS APL PL MO, AD Y **Real GDP** I lind Man Chame impart climite Con Spinding (1) oill Investment ot that mas Sperdon (JovernMy7 6 I ane Spinding Diovernmet b-shesses are the Consimus Asen 0.5 protecth. leuls percha 11mm 0 01 influence. Worse MA. and G T Chames Climate C all Ro, mith de Æ the (10 Components mpu incluse 60 AD Ab = -M on 101 AD incleasing 5 1esn H will Arke all 27 hise S Show Shiff. efile lee 25 outhor 01 Q ot the an. all om talton Curve DD tiom NO わつ levels AD of 6 De Condona new he NZ the Will miker A Economics 91224, 2015 Continue 02 estin

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production methods. Discuss the effect of climate change on economic growth in New Zealand as the impacts of climate change intensify over the next 50 years. fully label Graph Four to show the impact of increasing costs of production explain in detail the impact that you have shown on Graph Four explain in detail whether increasing spending or increasing costs of production would have a greater impact on economic growth in New Zealand over the next 50 years. Graph Four: AD/AS model of the New Zealand economy Price level APL. PL AD will Costs productions Men that ot

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An alternative view of the impact of climate change on the economy is that it will

(b)

In your answer:

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### QUESTION THREE: THE UNEVEN IMPACT OF ECONOMIC GROWTH

The proposed Ruataniwha Water Storage Scheme will create an 83-metre-high dam located on the upper Makaroro River in Central Hawke's Bay, where it will create a storage reservoir. The reservoir will supply water to irrigate approximately 25 000 hectares of land, primarily in the Ruataniwha Plains area of Central Hawke's Bay district. The scheme also includes a plan for a small (6.5 MW) renewable energy hydroelectric power station to be constructed adjacent to the dam (capable of supplying electricity equivalent to 2 200 average households).

Source (adapted): http://www.epa.govt.nz/Resource-management/Tukituki/lodgement-notification/about\_ tukituki\_proposal/Pages/default.aspx

Objections to the scheme ranged from the earthquake risk, inadequate protection of ecosystems, and existing high levels of pollution, to reduced access to water.

Source (adapted): http://www.epa.govt.nz/Resource-management/Tukituki/Submissions/Pages/Summary%20 and%20Submissions.aspx

Compare and contrast the impacts that the Ruataniwha Water Storage Scheme could have on the economic well-being of businesses and households. In your answer, explain in detail:

- one example of a business that may be better off
- one example of a business that may be worse off
- one example of how households may be better off
- one example of how households may be worse off.

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### EXEMPLAR Score 14

Question 1 – M5

Q 1(a)(i) – X placed inside of frontier – correct

Q 1(a)(ii) – arrow towards frontier – correct

Explanation – no mention of increase in output or reasons for increase in economic growth.

Q1(b) – graph shift correctly

Explanation – candidate mentions "increases to either natural, capital or human resources", specifically links to model (PFF to PFF<sub>1</sub>). (M5)

Question 2 – E7

Q 2(a) – curve shifted correctly and labelled correctly

Explanation – candidate mentions increase in C, I and G will lead to increase in economic growth – AND link to model  $(Y-Y_1)$ . (M6 evidence – 3 components)

Q 2(b) - curve shifted correctly

Explanation – candidate mentions less profitable,  $Y-Y_1$  and negative impacts on economic growth (M5 evidence)

As candidate focused on increased costs of production having a greater impact, rather than increased spending as the impact over the next 50 years of increasing cost of production due to resource scarcity will continue to remain high. Also discussed how increased spending will only be short-lived. E7 (misses E8 as insufficient links to model in this part of the question).

Question 3 – N2

Business positive – not accepting energy companies

Business negative - bottle water companies not accepted as no "less access to water".

Household positive – cheaper power not accepted BUT able to access power (supply focus) is accepted for A

Household negative – decreases health and well-being due to pollution accepted for A







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# Level 2 Economics, 2015

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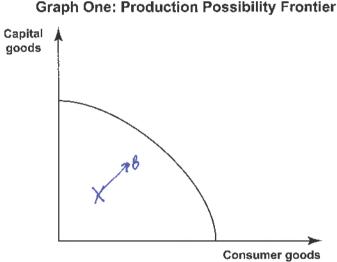
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http://www.stats.govt.nz/browse\_for\_stats/income-and-work/employment\_and\_unemployment/ HouseholdLabourForceSurvey HOTPSep14qtr.aspx

Identify ONE point on Graph One below that represents unemployment. Label the point (a) (i) with an X.



- Explain in detail the impact of an increase in Real Gross Domestic Product (Real GDP). (ii) In your answer:
  - on Graph One show the impact of an increase in Real GDP
  - explain in detail how the increase in Real GDP will affect economic growth
  - refer to Graph One.

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- (b) In your answer:

ASSESSOR'S USE ONLY Graph Two: Production Possibility Frontier **Consumer goods** Capacity. Cauce mail RONOMIC an increase is productive (apacity Kea/ Modultion increased, 50 has one ple Way Coula growth increase an lanonia RS An productive capacity. increase in capacity greater production 601 SO an int could canac Gath causes economic growth loal production means \_ < capacity productive s and a second nean moduction increased has drow occured. mean hal capacity allouis Moductive millage in There is more space for your answer to Question One on the following page.

Compare and contrast the impact on economic growth of an increase in Real Gross Domestic Product (Real GDP) with an increase in Productive Capacity. on Graph Two show the impact of an increase in Productive Capacity explain in detail how the increase in Productive Capacity will affect economic growth explain in detail the different impact on economic growth that an increase in Real GDP has when compared with an increase in Productive Capacity refer to Graph One and Graph Two. Capital goods An increase in productive growth. However mean to productive toy allows inveloke reased occured does necessari However

for greater growth in the future. One way to measure economic growth is also by measuring ASSESSOR'S USE ONLY measuring to measure screage in the capacity, growth production So way an invease growth. However lonomic capacity causes reductive neasured an Increase real was growth productive capacity increase in ta se necessarily mean was economic there & however an interest increase in production there was economic growthe ineans Economics 91224, 2015

## QUESTION TWO: THE IMPACT OF CLIMATE CHANGE ON ECONOMIC GROWTH

One view of the impact of climate change on the economy is that it will provide business opportunities as households, business, and the Government increase spending on protection from its worst influences.

- Explain in detail the impact of climate change on economic growth in New Zealand. (a) In your answer:

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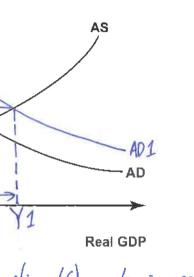
Graph Three: AD/AS model of the New Zealand economy

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fully label on Graph Three the impact of the increase in spending on economic growth

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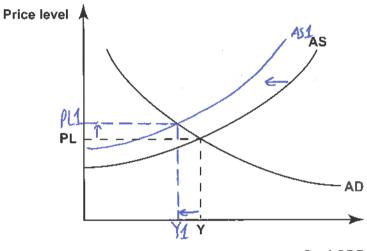


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An alternative view of the impact of climate change on the economy is that it will increase costs of production because of higher costs of obtaining resources or changing production methods.

- (b) Discuss the effect of climate change on economic growth in New Zealand as the impacts of climate change intensify over the next 50 years.
  In your answer:
  - fully label Graph Four to show the impact of increasing costs of production
  - explain in detail the impact that you have shown on Graph Four
  - explain in detail whether increasing spending or increasing costs of production would have a greater impact on economic growth in New Zealand over the next 50 years.

### Graph Four: AD/AS model of the New Zealand economy



**Real GDP** 

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### QUESTION THREE: THE UNEVEN IMPACT OF ECONOMIC GROWTH

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- one example of how households may be better off
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### EXEMPLAR Score 17

Question 1 – A4

Q 1(a)(i) – X placed inside of frontier – correct

Q 1(a)(ii) – arrow towards frontier – correct

Explanation – mentions increase of economic growth and increase in production but no reasons for this increase in economic growth. (A evidence)

Q1(b) - graph shift correctly

Explanation – mentions economic growth but no reasons why, no link to the model or specific impact on the future

### Question 2 – M6

Q 2(a) – curve shifted correctly and labelled correctly

Explanation – candidate mentions increase in C, I and G will lead to increase in economic growth – AND link to model  $(Y-Y_1)$ . (M6 evidence – 3 components)

Q 2(b) - curve shifted correctly

Explanation – candidate mentions increased cost of production will lead to lower profit margins,  $Y-Y_1$  BUT no impact on economic growth.

As candidate focused on increased spending having a greater impact, rather than increased costs of production due to increased scarcity of resources. This is acceptable only if the increased spending early on provided technology or production methods that are reducing need for scarce resources.

### Question 3 – E7

Business positive – Farmers can take advantage due to improved irrigation of land previously too dry ... increase production (who and why) ... increase revenue (implication) – M evidence

Business negative – power companies not accepted.

Household positive – employment in construction businesses. Higher incomes (who and why) ... able to afford more goods and services (implication) – M evidence

Household negative – increased pollution may lead to worse health (who and why) ... have to go to the hospital more often causing them to have less discretionary income (implication) – M evidence

As candidate has households positive AND negative = E7