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93402



For Supervisor's use only

TOP SCHOLAR NZQA

NEW ZEALAND QUALIFICATIONS AUTHORITY MANA TOHU MĀTAURANGA O AOTEAROA

Scholarship 2009 Economics

9.30 am Wednesday 2 December 2009 Time allowed: Three hours Total marks: 24

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

Pull out the Resource Booklet 93402R from the centre of this booklet.

Answer ALL the questions in this booklet.

Show ALL working.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly Answer ALL the questions in this booklet.

Show ALL working.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–24 in the correct order and that none of these pages is blank.

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

You have three hours to complete this examination.

QUESTION ONE: Competition In The New Zealand Mobile Telecommunications Market

The 2008 Telecommunications Market Monitoring Report suggests that Vodafone and Telecom are engaged in oligopolistic behaviour.

- Refer to Resources A and B when answering this section. (a)
 - (i) Apart from high termination rates and on-net calling offers, identify one other way that Vodafone and Telecom have engaged in oligopolistic behaviour.

Heavy non-puck sox competitions ruch as sponeously and new risbile network technology such as 20.

(ii) Explain how high termination rates and on-net calling offers represent significant barriers to entry into the New Zealand mobile telecommunications market, and describe how this affects allocative efficiency.

The high termination rates increases with to New comes into the fele communications maked. New establishing hours would have be pay hore vehicle want to call him we with ton or other remark. high rates "which has a relatively larger injust truy as to voclature and belease and already donunate hie makeyand most of hie calls how his ressorer will be head out to other networks, which were

a dier gl. On net calling offers incomages use of telease and us dafone networks due to already linge metrice base as de only applies to some network calls Briefly describe how the pricing and output decisions of firms in an oligopolistic market (iii) would compare with those in a perfectly competitive market.

It tomes in a perfectly competitivenable one pure takes, is they we inorghickent and supplies only a snedly portray of maket, so connot affect maket price in an oligojoustie meather primes that as believe have stong contol over put price due to movetone free dominand stoying desired and continued

Affects allocative efficiency due to lack of congressions Scholarship Economics 93402, 2009 ell phones ne un

so consumer and producer surpres mex

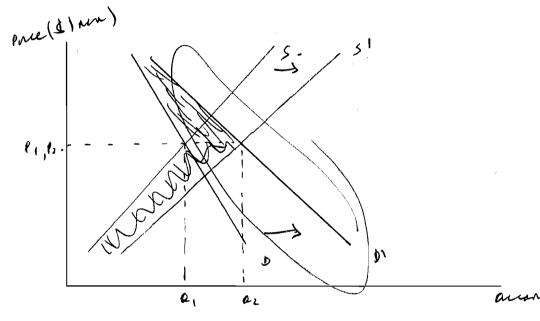
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In 2009, there was an increase in the level of competition in the New Zealand mobile telecommunications market.

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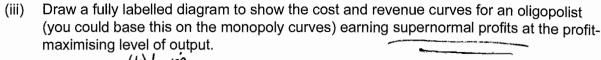
- (b) Refer to Resources **C** to **E** when answering this section.
 - (i) Draw a supply and demand diagram and use lettering or shading to show the <u>change</u> in <u>allocative efficiency</u> that would result from <u>2degrees</u> (previously known as <u>NZ</u> Communications) entering the New Zealand mobile telecommunications market.

New Zealand Mobile Telecommunications Market

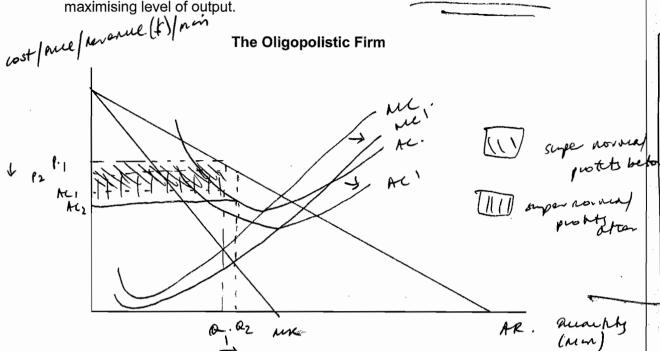


(ii) Explain your answer to (i) above.

moveage in competition will result in bette quality service. This would meneau derivate as consumer are altreated by the new prince plans and service. Demand also becomes more price what due to go the availability of more substituted of more substituted. Supply also theretaes due to the monast in output thous 2 degrees supply also becomes more price alestic due to meneage in new total due to meneage in new total due to meneage in new total supply white can be wheeld are all beauted and supply white might and both is and is measure. The menally overall meneage in allocative estimating is chaded. Once would drange depending on the relating size of of the corne stretts. Nost whelly it would levied to present in a larger of common surplus.



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(iv) On your diagram above, **illustrate** the effect of a reduction in the termination rates resulting from Commerce Commission regulation, and then in the space provided below **explain** the changes you have made.

it voices introvery with output is eg it call true havesses termination rates also immease. Therefore a reduction in termination rates and decrease areage cost and magnal cost, as each additional minute costs less conspared with the old rates. Therefore of a new equilibrium is set. This is because at the old equilibrium (P, Q,) the is greater than the, so subject to meneased in increase profit with the rew equilibrium (P, Q2). In this case important of the sound relately polarious (P, Q2). In this case important the sound profits have remained relately. The sound the mener equilibrium is viologer to the socially desirable equilibrium, these (MB AX = Net!) returned meneasing allocative ethicinely:

(c) **Evaluate** the extent to which the Commerce Commission is needed to achieve allocative efficiency in the market for a **private good**.

Refer to Resources A to E, and use your own knowledge of micro-economic theory, as well as your analysis in sections (a) and (b), when answering this question. Use appropriate diagrams and/or models in your answer.

Use this space for planning your essay. Start your essay on page 6.

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inhoductions of 2 degrees. moreage competition.

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would ague deglication of resources. As economics of scale. metricient.

hs.

benerally the maket outrose is ton and is allocatiely efficient. However in some cases it dealy isn't at it and hierefore he Commerce Commension chould intervene. In his case, he beleasenementations realect. nubile phones in particular has clearly resulted or an metherest and neguetable outrone. The descripto duopoly maket consisted of relecon and vedatore as has undered congettions which has resulted in encedingly high prices and an underconsumption of risbell proves congrued with his rest of me world, as mentioned in resonce B. Her the very high barriers of endices entry necess that such as high termination portes means heat new proces connot enter he nealest networst organheent thereting, provestore descouraging conjetition. a eg conenty consenses to the one of the proposed methods to conegettion in the readet is by withing terminations rates from 15 cents/men to 10 cents/men. This would evoe he barrers of entry and hopefully to encorrage new promesors to enter he realed An 7 ms will reduce average worts and reagenal for the new how and relevant redafore, aluch would result in a deveose in once and in increase in output, as shown Es in QIbiii Albacature - The maket would become nove efficient is he price has developed

and output mucessed to socially hereathe equilibrium?

The intervention of the commence commission in the a tailing private good market, such as the mobile phone maket will increase conjection. In this case, in the introduction of a pregress will charge. The meased competition will benefit unstonies as the operators will have made incentive to introduction quality at service, or treey nate looning out tories. Also his should increase the market supply.

The intervent tories and have not been the market more products and increase the market supply.

The product is a product of increase the market more particles.

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This would tone he pure down and merease

Me quantity consumed. How he shaded wed

is he moreose he consumer surplus one all

CS will increase more from hear PS deveases and

the market would be come more allocatively ettiment

those consumers would take a more elevate denimed

aime as there are more drougs of consumers

can easily suitch to 2 pegices simply by buying a

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QUESTION TWO: THE SOCIAL COSTS OF THE MISUSE OF ALCOHOL

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Consumers often ignore the social costs when making their drinking decisions.

- (a) Refer to Resources F to H when answering this section.
 - (i) Define the term 'social cost' and describe how social costs result from the misuse of alcohol.

Social costs are the costs involved with the consumption or production of a good that

Society neest bear.

Misure of alcohol generales additional spillower costs to society beyond the private asit of the drink.

Consequences such as damaged heaty loss.

productify due to a transport hangover or properly damage due to drink dring and allas of social costs (ast yea.

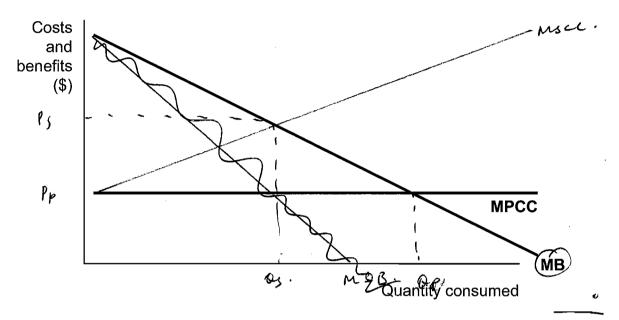
(ii) Explain why alcohol (when misused) is classified as a demerit good.

that society considers bad or doringing for us to consume. When alcohol is consumed in every, it will come cause doringe to the user in terms of permanent hier doringe or dealer due to drink dring accidents. The large number of negative consequences that and took to me his it is considered to be alcohol means that it is considered to be

of the consumers as pure houng or collusion will be reverly scholarship Economics 93402, 2009

- (b) Refer to Resource H when answering this section.
 - (i) Complete the diagram to show how the private and social costs differ as an <u>individ</u>ual consumer of alcohol consumes more alcohol in a session. Indicate the private (P_p, Q_p) and social (P_s, Q_s) equilibrium prices and quantities consumed using these labels. (MPCC shows the marginal private cost of consumption.)

The Individual Consumer of Alcohol



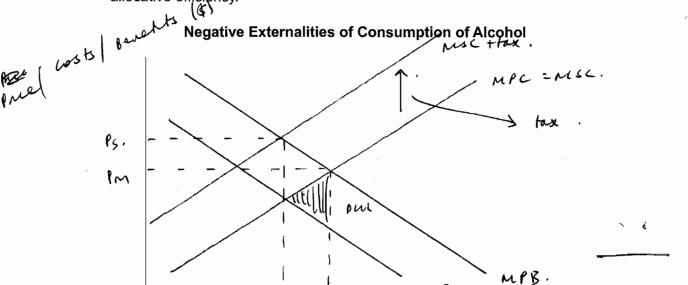
(ii) Explain your answer to (i) above.

of the that drunk retreets the greate cost, but later drunks will generate additional social costs due to excessive as see reptroy and all he negative consequences associated with it.

There fore as quartry consumed thereares, the gay between he magnal social cost of consumption and the MPCL increases due to the increasing social costs of another the price (1p) is underprised compared with price (1p) is underprised compared with p, and the quartry of (0p) is merconsumed compared with Ds.

Draw a fully labelled diagram to show the private market equilibrium and the social equilibrium in the market for alcohol. Then shade the area that represents the loss of allocative efficiency.

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MSB.

With reference to your diagram above, briefly explain how the negative externalities (iv) can be internalised.

Qς

The free maket equilibrium (PM, Dm) is men underpried and overconsumed compared with the soudlequellorum (1s, as) as the tree market does not take into account the social costs A ton can be tagten leved on alcohol. This would increase the costs trued by producers prohibility, heretone deseaung as produces test prepared to supply less alcohol at each price. This would hereose price of alcohol and devere he greatly consumed, aroung he because equilibrium pounds the social equilibrium. The shooted would full as consumptions lead neight 651 mores towards fre so wally desmable consumptions, resulting in an workedow in allocative efficiency

Also Kollacksing heavy trues would be implemented on a consumers it kiey are caught with escess diohol. This would devease demand and out the MER shett it bounds M&B. as consumer are lounds disconaged hors driving. This would also Scholarship Economics 93402, 2009 insurance allocatic afficery

. I want he seen as none countable of the only Marie

(c) **Evaluate** the extent to which the government should rely on controlling the price or use other policy measures, to achieve a more socially desirable outcome in the market for alcohol.

Refer to Resources F to K, and use your own knowledge of economic theory related to market failure, as well as your analysis in sections (a) and (b), when answering this question. Use appropriate diagrams and/or models in your answer.

Use this space for planning your essay. Start your essay on page 13.

Tex. - Enequetable. (Regionie 2) types
age, sex. detterent aleonol

Fines.

Advertisement (Resonce J). ALAC.

(Resonce K.

Regulate loss leading pronolions of
alcohol.

Change behaviour of consumers

rewlet equilibrium

left and on he

moves towards the soull equilibrium, making the outrouse more southly desirable. However the lage problem with his policy is equity. As shown in Resource 2, not all age group or sea to ducante conompel the same amount of alcollol. A sales took on att all alcoholsold would force everyone who consumes alcohol to pay a higher price, even hose also do not cause any negative externalities, This was be seen as untain. Whense a sales too is a regressive tax those neare tax to consume alcohol. It alcohol is anordined to be a necessity men me mesme gaz in NZ would under, which is undesmable. Another problem uch a sales too is determining the amount of externality spell over costs that can be absoluted to each type of alwhol (eg Beer, wine). Different types of alcohol may cause different easternalihes. eg RTO are often as somed by keenagers als are seen to contitute to drunk during accidents. Should RTD han be draged with a higher tax than une? when are consumed by the none "responsible" > 45 year old age groups instead of contolling the price, the government would also affect wonouncer behaviour instead. The government could regulate supermaket netailers and ban loss leading that promotes alcohol consumptions. Or me government could invest more in the ALAC to

ensonage he usderation in he use of liquor: in an to a more extreme way, he government government could significantly weave hie penalhes for also hol abuse such as larger tires and jail sentences for drunk drung. All of these policies west and to that would down disconage he consumption of alcohol. Adverting would que conserves more intornations to make none intermed deusions regarding about and he trues would develope the spell arencosts as less consumers would be prepared to drunk drive. In all cases, dericand would pue (costs) b(4) hen het be alcoho! MSBD MB accordy ansurce The her unhet equilibrium nould more Holphy how The her unhet equilibrium would move tolow, how (Im, am) to (Id, ad) much is dosor to the social equilibrium. This increases allocable extresses in hie realiest and doveases dead weight loss. However he was negative of these policies are the cost. It would cost the gout, to regulate he pres and supermakets and cost the gort la increased advertising: less moneysprut on public goods

overall a combination of policies should be used.

QUESTION THREE: RISK, DEBT AND THE GREAT RECESSION

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High levels of debt and less willingness to tolerate risk have led to more saving by households and firms at a time when the economy is adversely affected by the global recession.

(a) Refer to Resources L to O when answering this section.

(i) Explain how a fall in the housing market, and the negative wealth effect that this creates, could be partly responsible for the improvement seen in the net investment income and trade balances in New Zealand's current account.

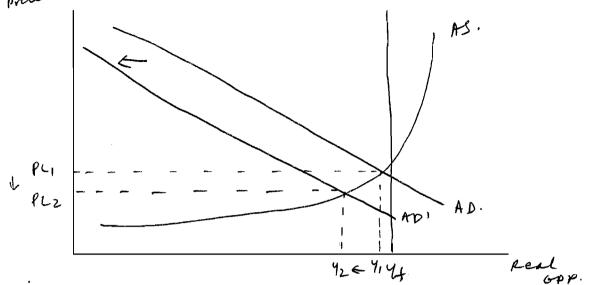
A fall in the housing market and a subsequent downton in house hold wealth deceases workdance in New Eventury. Leop le will no longer get richer on paper as a house pries turble. As a result he previously insuhabile commune demand, which resulted in heavy borrowing has eased. Less borrowing by ("sump in well demand to the formation and threat the previously has been the resulted in heavy has resulted in a his sharp decline in interest repayments to one said, thus has a threat to the formation and the sum of the sum o

As shown in resonne L

Use the AD/AS model to analyse how deleveraging by both households and firms (ii) could be blamed for the New Zealand recession since 2008. (Deleveraging refers to reducing debt levels.)

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(iii) Explain your answer to (ii) above.

The deleveraging by households means more mone is used in repaying debot, such mortgages. Also les loons are taken out. As a result consumer disastronary incom tallen as here is less and delsts to buy goods + servi consumption talls. Deleveraging by results in less investment spending revenue atter repaying mestment looms new investments. Theretone havestment spending talls that AD talls. Is a result Real opp deveaues hom 4, 10 42 and indicates a deveate in growth as more resource we uneuploye new y har her her away hours kell employment)

decreasing delvo rates sshown has resulted in investment. in %

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(b) Refer to Resources N and O when answering this section.

Suggest why the International Monetary Fund is concerned about each of the following:

(i) a synchronised recession

to syndimensed recession means a charp tall in global economic activity. International trade would be adversely attested as less exports we produced by consumers with less income it "notody is buying" so small countries meretone connot were exports rely on a export to put surging unemployment

(ii) surging unemployment '

Surging inemployment reduces house hold missines and inverses handler spinding by generalist less more results in reduced consumption which which decreases Aggregate demand and growth.

(iii) deflation.

Caused by a fall in AD. This his hier dangery

The global working as consumers would

be not encouraged to a spond at a later

Late date in expectation of falling

prices. This would his hier develop AD and

shrink the economy. Developed sponding

by consumers would result in producers

withing buck productions, develong

deniend for way later and forwing

wages down. less more means it will

be hader to people to very debts, such

as mortgages.

(c) In the context of a continuing worldwide recession, **evaluate** the extent to which policy makers in New Zealand should focus on <u>fiscal stimulus</u>, rather than other measures, in order to achieve a recovery in the New Zealand economy.

Refer to Resources L to R, and use your own knowledge of macro-economic theory, as well as your analysis in sections (a) and (b), when answering this question. Use appropriate diagrams and/or models in your answer.

Use this space for planning your essay. Start your essay on page 20.

Expansionary hacad policy - credit rating

Other necessary policy. Och.

Supply side

Subsidies

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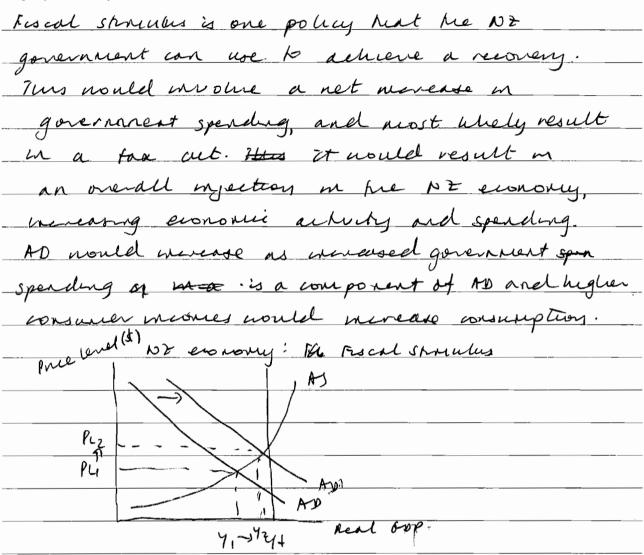
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Begin your essay here.



head opp would mercase hom 4, to 42 resulting

on an increase in economic growth and employment.

Also government spending on education and researchs

and development into new technology would increase

productionly in the long run increase both

As and the LRAS would sheft putureds in the

bouginer, turner increasing growth.

The to have are a ten severe problems with

a trocal structus policy. Fit Firstly in the

shortrun, it would result in an increase in

intentionary pressures as PL, short increases to PLZ

Although it is likely the intentionary pressures would

The government spending would contract with the fixed responsibilities act 2004 as the ineversed spending touch result in un-predent delot toward result in un-predent delot be relatively small, as the initially NZ is operating on he hat As anne due & recession, it would still regaliely affect low income earers without me power Knego hate wage noes. How can be seen as a equely issue as effectively he burden of the govern The second major problem is the issue of debt. Nt ran a current account detrect of \$15 to bellion in the year ended september which weart a significant inhow in the Francial amount in the born of borrowing hom merseas to hand this deticit. Theretore it he large detruit continues, especially et hie government de uses revenue to hard expansionery tracal policy materal of repaying delst, him it is Wely NE will tace a wedit donngrade: This would devease growth as interest repayments by he government would increase, hereasing government spending. 72 + 4.44 GDP Alos ireall interest rates whely to mencese at as he government spending crowds out private investment, develong available mes thient tirely Mos it may result in detration which would be disastores as menhoned in a shiji. on he obserhand the RBWZ can loosen its moretary policy by decreasing the OCR. This would deveose bank interest rates in New Zealand. Savings would tall as reward for savings would

deneate. It ilus would affect the previously by household and thous would invested, due to a deveate in cost, which would affect the anent deleveraging heavy, overall he train from whenest vates would wereast consumption of common opening and investment spending whenever the Nt\$ would depreciate as less onesees investors must men books due to deveated returns.

EN put Nt Forex.

(500)

ilus moned beneht exporters of the as though exports benne none competitive and suports would tall, as hey benne more experione compared to domerace substitutes. Net exports merease interest mereases both the AD and the Balance on goods. The AD effect is smula that af an expansionary fiscal policy and the menease in the future on goods and services would be beneficial to an award through developed as a wedlet downgrade. However AS is they to full also due to the meneased cost and megorial raw materials developed from probability. This would significantly mercase intrattory as AD has hereased and AS has fuller

Extra paper for continuation of answers if required.

Clearly number the question.

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Question Question NE economy: monatary policy number deange in gio a AD1 real ODP a high mentioned before doantage low movie en ra he competitioners of es a regalie megactor mat Mol the would be very entra MXV = PXQ overall a combination of policy i The monetary policy should vis policy should increase growthy in high intention. policy such as spending on education development to be intertionary and short my honever he due 1 would noe mercore growth and care nould pressores. Fiscal policy must be used