Another Old Exam Question

 $GDP_A = GDP_B$



Lectures in Macroeconomics- Charles W. Upton

A Variant

• Last year the newspapers were full of stories from Central Backwater, where its government undertook a \$100 million program to build a monumental tomb for its current ruler, who was not in the best of health. There was general agreement that this proposal was truly a monument to vanity and folly.



Another Old Exam Question

A Variant

• Unbeknownst to the world's press, Western Backwater was planning a project, which would also cost \$100 million. The project was unveiled today. While details of the project are hazy, all the nations eminent economists agree that this project will add boost A in Western Backwaters production function (Y = $AK^{\alpha}L^{1-\alpha}$) and add \$25 million a year to its GDP.



Another Old Exam Question

A Variant

- The project will be undertaken in year one and the benefits from the project will begin in year two. (Take all of these numbers as accurate).
- Like Central Backwater, this is a closed economy.



Another Old Exam Question

Funding Proposals

- Impose a special tax surcharge on last year's income tax bill sufficient to cover the project.
- Borrow the money. Beginning in year 2, impose a special tax on wage income sufficient to repay the debt over a 10 year period. (Accountants are working out the precise tax rate; you need not worry about that).



Another Old Exam Question

Your Questions

- What will be the impact on GDP, Investment and Interest Rates in the coming year?
- Rank the proposals in term of their impact on these three variables. Say where you do not have enough information.
- On grounds of economic efficiency, which one do you recommend? Why?



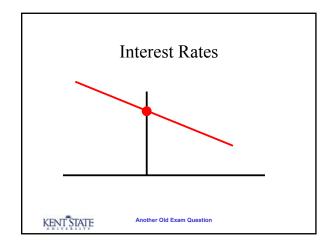
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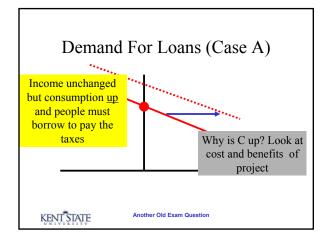
The Economic Efficiency

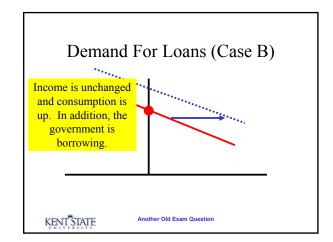
• Proposal A is the better. Even though the tax is levied all at once, it is based on last year's income. Too late to change that, so no disincentive effects.

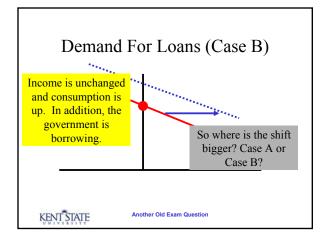


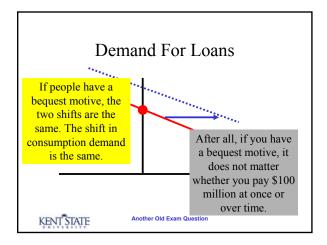
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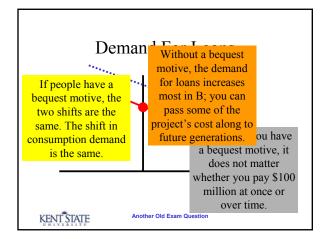












First Question

 What will be the impact on GDP, Investment and Interest Rates in the coming year?

> r up in A and B I down in A and B GDP unchanged

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Another Old Exam Question

Second Question

 Rank the proposals in term of their impact on these three variables. Say where you do not have enough information. $GDP_A = GDP_B$ (unchanged) With bequest motive

 $r_A = r_B$ $I_A = I_B$

W/o bequest motive

 $r_A < r_B$ $I_A > I_B$

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Third Question

 On grounds of economic efficiency, which one do you recommend? Why?

Case A

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End

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Another Old Exam Question