Old Exam Question

$$GDP_A < GDP_B = GDP_C$$



Lectures in Macroeconomics- Charles W. Upton

An Old Exam Question

The Government of Central Backwater is about to undertake a \$100 million program to build a monumental tomb for its current ruler, who is not in the best of health. The project is to be completed in the year. There is a great debate about how to finance the project. Three proposals have been advanced.



Old Exam Question

An Old Exam Question

A side assumption. The Government of Co This is a closed about to undertake a \$ economy. No to build a monumental international trade. ruler, who is not in the pest of nearth. The project is to be completed in the year. There is a great debate about how to finance the project. Three proposals have been advanced.



Old Exam Question

An Old Exam Question

The Government of Co about to undertake a \$ You should notice immediately this is a foolish project. No one d in the year. benefits.

A side assumption. This is a closed economy. No nternational trade. it how to finance

the project. Three proposals have been advanced.



Old Exam Question

Three Proposals

• (a) Impose a special one-time tax on wage incomes in the coming year sufficient to cover the cost of the project.



Old Exam Question

Three Proposals

• (b) Require workers to make an involuntary loan to the government. The loan will equal the tax called for in proposal (a). However, the loan will be paid back over time with a special 3% tax on wage incomes. (The 3% tax will start the year after the project is completed). The special tax will last as long as is required to pay back the loan. And yes, it will be paid back.

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Old Exam Question

Three Proposals

• (c) Rather than require an involuntary loan, Central Backwater can simply borrow \$100 million. If it elects this option, the loan will be paid back over time with a special 3% tax on wage incomes. (The 3% tax will start the year after the project is completed). The special tax will last as long as is required to pay back the loan.



Old Exam Question

Three 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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Old Exam Question

A Simplification

- Proposal (b) = Proposal (c).
 - In either scenario, the government is simply borrowing the money.
 - If an individual did not want to lend the money to the government this year, he can simply sell the loan on the market.



Old Exam Question

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Old Exam Question

First Question

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



Old Exam Question

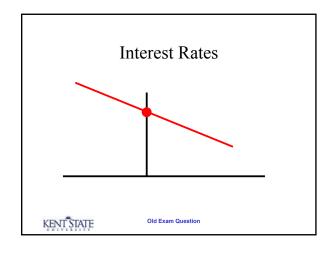
First Question

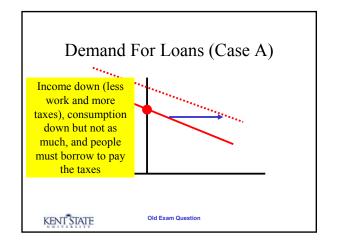
- What will be the impact on GDP, Investment and Interest Rates in the coming year?
- Proposal (a) will reduce GDP because of temporary labor supply effects.
- Proposal (b) = (c) have no disincentive effects in the coming year. No wage taxes this year

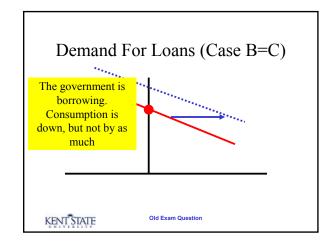


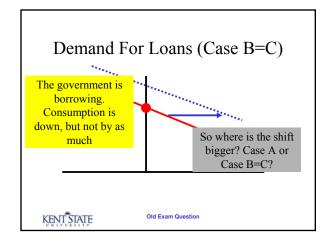
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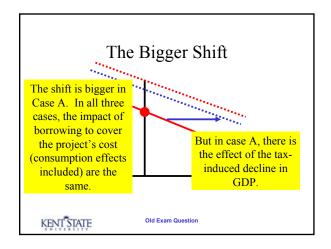
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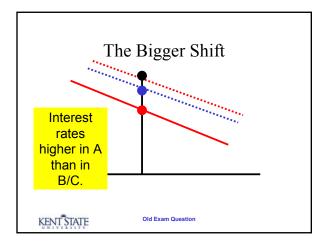












First Question

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

$$r_A > r_{B=C}$$

 $I_A < I_{B=C}$

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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.

$$GDP_A < GDP_B = GDP_C$$
 $r_A > r_{B=C}$
 $I_A < I_{B=C}$

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ld Exam Question

Third Question

- On grounds of economic efficiency, which one do you recommend? Why?
- The general principle: spread taxes out. Thus Proposal B=C wins over Proposal A.

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Old Exam Question

