Examination	5025: Economics II (Intermediate Macroeconomics)
Semester:	Summer Semester 2007
Examiners:	Prof. Dr. Gerhard Schwödiauer/ Prof. Dr. Joachim Weimann
The following aids may be used:	Non-programmable pocket calculators; English language dictionaries without any marking.
Time:	120 minutes
questions, otherwise the solution will be obtain 2 points, for every false answer 1 neither obtain nor lose a point. In order	o not mark more than one answer to any of the considered false. For every correct answer you point is subtracted. If no answer is marked you to pass this exam at least 10 points are needed.  ears your matriculation number and name in the
	Good luck!
Examination Questions:	
marginal tax rate of 50 %. The centra for saving and investment plans cons	rivate marginal propensity to consume of 0.4 and a all bank succeeds in keeping the interest rates relevant tant. The government reduces its lump-sum social ment plans do not depend on current changes in constant prices) falls by
a) 0.75 billion euros.	
b) 0.5 billion euros.	
c) 0.25 billion euros.	
Assume that under the assumptions recut in social spending by a rise in put this case, aggregate effective demand	nade in problem 1, the government compensates the blic investment which keeps its deficit constant. In
a) does not change.	
b) increases by 0.5 billion	
c) increases by 1 billion	euros.
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3.	Aggregate real saving (in short-run equilibrium)	
	a) remains unchanged in the scenario of problem 1, but rises in the scenario of problem 2.	
	b) rises both in the scenario of problem 1 and in that of	
	problem 2. remains unchanged both in the scenario of problem 1 and in that of problem 2.	
4.	Under the assumptions made in problem 1 and the further hypothesis that an increase in the interest rate by 1 percentage point reduces aggregate planned expenditure by $\alpha > 0$ units of real GDP, the slope of the <i>IS</i> -curve, $\partial i/\partial Y$ , is	
	a) $-0.4/\alpha$ .	
	a) -0.4/α. b) -α/0.8.	
	c) -0.8/α.	
5.	Assume that the income elasticity of money demand is equal to 1 and its interest elasticity is equal to 0. Then, under the assumptions made in problems 1 and 4, the slope of the $AD$ -curve, $\partial P/\partial Y$ , is	
	a) $-\alpha A/MY^2$ .	
	b) $-AM/\alpha Y^2$ .	
	a) $-\alpha A/MY^2$ . b) $-AM/\alpha Y^2$ . c) $-AM/Y^2$ .	
	( $M$ denotes the stock of money, and $A$ is some constant.)	
6.	The so-called "crowding-out" effect of an increase in government expenditure on private investment is the smaller	
	a) the bigger is the marginal tax rate on personal incomes.	
	b) the smaller is the interest sensitivity of money demand.	
	c) the bigger is the income sensitivity of money demand.	
7.	Assume a standard short-run AS-curve and an AD-curve resulting from the assumptions in problems 4 and 5. In order to avoid that the government measure described in problem 1 leads to a change in the short-run equilibrium price level, the central bank would have to	
	a) keep the money supply constant.	
	<ul> <li>b) engage in an expansionary open-market policy.</li> </ul>	
	c) keep the current interest rate constant.	

8.	of 10 billion e reserves in car the commerci	the central bank undertakes an expansive open-market operation in the volume euros. Assume further that the non-banking private sector keeps its money sh and sight deposits with commercial banks in the proportion of 1:5, while all banks keep a cash reserve of \(^{1}/10\) of the volume of sight deposits. The neasure results in an increase of the money supply to the non-banking private
	a) b) c)	20 billion euros. 30 billion euros. 40 billion euros.
9.	is willing to h	assumption made in problem 8 assume that the non-banking private sector old all additional money reserves in the form of sight deposits. In this case, oply increases by
	(a)	40 billion euros.
	b)	60 billion euros.
	(c)	100 billion euros.
	people with a leaving the la	unemployed at the beginning of a month. Assume that the percentage of job leaving the labor force is the same as the percentage of unemployed bor force. Moreover, every person entering the labor force during a month is loyed. The stationary unemployment rate (as a percentage of the labor force)
	(a)	10 %.
	(b)	12.5 %.
	c)	16.6 %.
	(Use a cor	ntinuous-time model!)
11	and are price	all firms produce according to the production function $Y = K^{\alpha}N^{1-\alpha}$ , $0 < \alpha < 1$ , takers both in output and labor markets.  er that the current wage rate is fixed at $W=P^e$ , where $P^e$ is the price level the current period. The corresponding Phillips Curve $\pi = \pi^e - b(u - u_n)$
	has a slope	$\kappa - \kappa - b(u - u_n)$
	and a drope	
	(a)	$b=1-\alpha$ .
	b)	$b=1/\alpha$ .
	(c)	$b=\alpha$ .

α=0. Each function is ε	all firms produce according to the production function from problem 11 with firm possesses a local monopoly such that the price elasticity of its demand $e>1$ . The current wage rate is given by $W=P^e(1-u)$ . The slope of the ng Phillips Curve
correspondi	$\pi = \pi^e - b(u - u_n)$
is	
a)	$b = \varepsilon$ .
b)	$b = \varepsilon/(\varepsilon - 1)$ .
c)	$b=1/\varepsilon$ .
	t in the economy described in problem 12 the firms have to pay a tax on their n increase in this tax rate
a)	makes the Phillips Curve steeper and the natural rate of unemployment bigger.
(b)	makes the Phillips Curve flatter without changing the natural rate of unemployment.
c)	makes the Phillips Curve flatter and the natural rate of unemployment bigger.
14. An economy expected to In this case,	
a) b)	the price level rises in the short run but, since there is no change in the supply of money, in the medium run returns to its previous level. the interest rate rises in the short run but in the medium run returns to
	its previous natural level.
c)	in the medium run the price level rises by more than in the short run, and the interest rate reaches a higher than previous natural level.
is made a de prediction o	y is in medium-run equilibrium when the previously independent central bank epartment of the ministry of finance. This measure raises the private sector's f future inflation rates, though actual monetary policy (in terms of nominal ly) does not change. As a consequence,
a)	the nominal interest rate rises and the price level falls in the short run while in the medium run, as long as money supply is not changed, both return to their previous equilibrium levels.
b)	the price level rises in the short run and even more in the medium run, while the real interest rate falls in the short run and returns to its
c)	unchanged natural level in the medium run.  the price level rises both in the short and medium run; this feeds back positively into the private sector's expectations about future inflation rate which in turn leads to a rise in the medium-run equilibrium (natural) real rate of interest.

$\alpha = \frac{1}{3}$ . Sav	at inputs of capital services $K$ and labor $N$ result in real GDP $Y = K^{\alpha}N^{1-\alpha}$ with ring is 40 % of GDP, and the capital stock depreciates at a rate of 8 %. and labor force grow at a rate of 2 %. The steady-state capital intensity of this s
a) b) c)	4. 8. 12.
saving rate	at the economy from problem 16 is in a steady-state equilibrium when the falls permanently to 20 % of GDP. As a consequence, the capital intensity rink at a continuous-time rate of
(a)	5 %.
b)	10 %.
(c)	15 %.
problem 17	utional consequences of the permanent decrease in the saving rate described in are, under the assumption that the factors of production are awarded according rginal productivities,  a medium- and long-run increase in the real capital rental rate leading to a higher share of income from capital and residual profits in GDP.  a medium- and long-run increase in the real capital rental rate together with an increase in total real income from capital and residual profits.  a medium- and long-run fall in the real wage rate leading to a fall in the total real wage bill.
O Which of th	on following propositions is compat?
. which of th	ne following propositions is correct?
a)	The equilibrium in problem 16 is optimal in the sense of the Golden Rule.
(b)	The equilibrium in problem 17 is (Golden Rule) optimal.
c)	The equilibrium in problem 17 is an under-accumulation equilibrium.

20. Assume that the macroeconomic production function is

wage income in GDP.

$$Y = [K^{\alpha} + N^{\alpha}]^{1/\alpha}$$

with  $\alpha$ <0 and N constant, and that the factors of production are rewarded according to their marginal productivities. The economy is in a steady state equilibrium when a natural disaster destroys a significant part of its capital stock without hurting the people or changing their saving behaviour. As a consequence,

a)	the income distribution changes immediately in favour of capital owners,
	but converges back to the original distribution due to economic growth.
b)	real GDP per capita begins to grow, the capital intensity is increasing,
	and during this transitional phase the share of capital income in GDP rises
(c)	real wages fall immediately without, however, reducing the share of

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