國立中山大學100學年度碩士班招生考試試題

科目:總體經濟學【經濟所碩士班】

. Multiple Choices	(45%, 3	points	each,單選題)
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income and i is the nomi real money supply M/F	nal interest rate. In equilibri	L=0.3Y-600i, where Y is real ium, real money demand L equals 00 and the real interest rate is 5%.
a. 42.5% b. 45.0%	c. 47.5% d. 50.0%	
2. According to the Ricar	rdian equivalence propositio	on, current deficits
a. will not affect co	onsumption or national s	aving
b. will affect consu	ımption but not national	saving
c. will affect nation	nal saving but not consur	nption
d. will affect both	consumption and nationa	al saving
•	monetary base is \$40 million iplier is equal to	sitory institutions at the central n, and bank deposits are \$100
	anking crisis. The money su _ their currency-deposit ration	apply would shrink by the greates o and the banks their
a. decreased, decreased d. increased, increased		c. increased, decreased
5. A rise in the domestic in the exchange		e a in net exports and a
a. rise, rise b. rise, fall	l c. fall, rise	d. fall, fall
6. A rapid and decisive re purpose of disinflation is		h of the money supply for the
a. a salt water policy	b. a cold shower policy	c. gradualism
d. a cold turkey policy	•	

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- 7. One cost of a perfectly anticipated inflation is that it
 - a. transfers wealth from lenders to borrowers
 - b. transfers wealth from borrowers to lenders
 - c. increases money costs
 - d. damaged the role of prices as signals in the economy
- 8. Lucas critique is an objection to the assumption that
 - a. inflation is always and everywhere a monetary phenomenon
 - b. there is a negative relationship between inflation and unemployment
 - c. historical relationships between macroeconomic variables will continue to hold after new policies are in place
 - d. people form expectations rationally
- 9. In the Keynesian model, the difference between using monetary and fiscal policy to eliminate a recession is that
 - a. monetary policy will eliminate a recession quicker than fiscal policy will
 - b. fiscal policy will eliminate a recession quicker than monetary policy will
 - c. an expansionary monetary policy will leave the economy with a lower real interest rate than an expansionary fiscal policy
 - d. an expansionary fiscal policy will leave the economy with a lower real interest rate than an expansionary monetary policy

10. In	the long run in the	Keyr	iesian model, a be	neficial supply shoc	k would leave the
econor	my with a higher le	vel o	f output, but also	a real inter	est rate and a
 	price level.				
а.	higher, lower higher	b.	lower, higher	c. lower, lower	d. higher,

- 11. According to the misperceptions theory, and anticipated 10% decrease in the money supply leads to a short-run reduction in the price level of
- a. 0% b.5% c. some amount between 0% and 10% d. 10%
- 12. One important reason why the Solow residual may be strongly procyclical even if the actual technology used in production doesn't change is that
- a. employment is procyclical b. resource utilization is procyclical
- c. demand shocks are the dominant force determining the business cycle
- d. the coefficients on capital and labor in the production function are procyclical.

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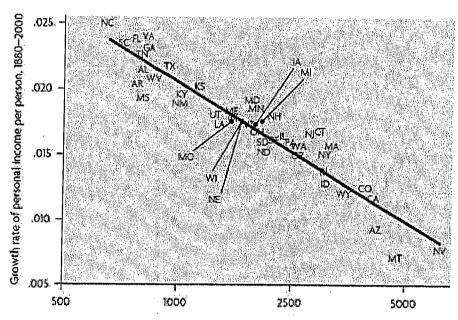
- 13. When RBC economists compare the correlations in their models to the data, what are they looking at?
- a. the degree to which variables lead output over the business cycle
- b. the strength of procyclicality of different variables
- c. the amount of random variation in economic variables
- d. the degree to which different economic variables move together
- 14. Which of the following changes shifts the AD curve to the right?
 - a. A rise in the nominal money supply
 - b. an increase in income taxes
 - c. an increase in the risk on nonmonetary assets
 - d. a decrease in the future marginal productivity of capital

15.	When tl	he mone	y suppl	y decli	nes by 1	10%, in	the l	ong run,	output	 and the
pric	e level	•								

- a. is unchanged, is unchanged
- b. declines, falls c. is unchanged, falls d. declines, is unchanged

II. Problems and Calculations (55%)

1. (30%) Please apply Solow growth model to answer following questions. One of the important implications of Solow model is convergence of income across states of the US and industrial countries.



- A. (10%) According to the graph above, please interpret whether the convergence has or has not occurred between 1880 and 2000. The x-axis is income level in 1880.
- B. (10%) If Prof. White would like to test the validity of convergence, his equation is as follows.

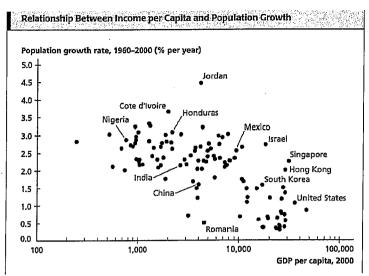
$$\ln\left[\frac{Y}{N_{i,2000}}\right] - \ln\left[\frac{Y}{N_{i,1880}}\right] = \beta_0 + \beta_1 \ln\left[\frac{Y}{N_{i,1880}}\right] + \varepsilon_i,$$

After collecting data, the estimated equation is as follows.

$$\ln\left[\frac{Y}{N_{i,2000}}\right] - \ln\left[\frac{Y}{N_{i,1880}}\right] = 0.49 - 2.59 \ln\left[\frac{Y}{N_{i,1880}}\right] + \varepsilon_i,$$

How do you form your testing hypothesis? Please also test your hypothesis based on 5% level of significance. Do you support that Prof. White's empirical results in finding "convergence" of Solow model?

C. (/o%) According to the following graph, it shows the relationship between growth rate of population and GDP per capita across countries.



Please use key equation of Solow model, $\dot{k}(t) = sf(k(t)) - (n+g+\delta)k(t)$ to explain whether the implication from the graph above can be explained by the key equation.

2. (25%) The relationship between exchange rate and current account is an interesting issue to macroeconomists. Please apply the following graph to answer questions.

A. (10%) Do you find J-curve effects on the graph? Why causes J-curve effect?

B. (15%) There are both fixed exchange regime and floating exchange regime on the graph. Please graphically apply Mundell-Fleming model to analyze effectiveness of monetary policy after 1975. (Please also show the equations of Mundell-Fleming model with assumptions)

