國立中央大學八十四學年度碩士班研究生入學試題卷

所別: 資訊管理研究所 甲組 科目: 經濟學 共 2 頁 第 / 頁

個體經濟學第一部份: 是非題 (每題二分; 共 十分)

- In long-run equilibrium, for a monopolistically competitive firm, its marginal cost must equal its marginal revenue at the minimum point of the long-run, average cost curve.
- In order for a pure monopolist to earn a pure economic profit in short-run equilibrium, marginal revenue must be greater than average variable cost.
- If a competitive firm is in long-run equilibrium, the marginal revenue line is tangent to the short-run, average variable cost curve.
- Economics of scale exist over all ranges of output for which short-run, average total cost exceeds long-run average cost.
- If the income elasticity of demand for a good is positive, the good is a normal good.

個體經濟學第二部份:選擇題(每题二分;共 十分)

- As one moves upward and to the left along a normallyshaped indifference curve, the marginal rate of substitution:
 - (a) increases.
 - (b) remains the same.
 - (c) decreases.
 - (d) increases and then decreases
- If the marginal cost curve is above the average total cost curve, the average total cost curve must have a slope that is:
 - (a) negative.
 - (b) positive.
 - (c) constant.
 - (d) variable with output.
- 3. Which of the following statement is correct?
 - (a) In order to maximizing profits, a firm should produce the level of output for which total revenue is greatest.
 - (b) In the short-run, a competitive firm will continue to produce as long as total receipts are sufficient to cover total fixed cost.
 - (c) In long-run equilibrium, a competitive firm will produce at the point of minimum average total cost.

- (d) In the short-run, a competitive firm will close down whenever price is less than minimum average total cost.
- 4. At the level of output in which the marginal cost and marginal revenue curves intersect, a pure monopolist's straight-line demand curve passes below its average variable cost curve. The firm will:
 - (a) be able to make a pure economic rent.
 - (b) stay in operation in the short-run, but shut down eventually if demand conditions do not improve.
 - (c) increase price.
 - (d) shut down in the short-run.
- Tacit coordination will be most difficult in an industry in which:
 - (a) two firms have a large market share and are the same size.
 - (b) one firm is a dominant price leader.
 - (c) products are homogeneous.
 - (d) information on price, output, and profits is secret.

個體經濟學第三部份:計算題 (每題十分;共 三十分)

- 1. Assume that an entrepreneur's short-run total cost function is $C = q^3 10q^2 + 17q + 66$. Assume the output price p = 5.
 - (a) Determine the output level at which he maximizes profit.
 - (b) Compute the output elasticity of cost at this output level.
- 2. Construct a short-run supply function for an entrepreneur whose short-run cost function is $C = 0.04q^3 0.8q^2 + 10q + 5$.
- 3. Let two duopsonists have production functions $q_1 = 13x_1 0.2x_1^2$ and $q_2 = 12x_2 0.1x_2^2$ where x_1, x_2 are the input levels employed by the duopsonists. Assume that the input supply function is $r = 2 + 0.1(x_1 + x_2)$ where r is the supply price of the input, and q_1 and q_2 are sold in competitive markets for prices $p_1 = 2$ and $p_2 = 3$. Let π_1 and π_2 denote the profits of the firm 1 and firm 2, respectively.
 - (a) Find the input reaction function.
 - (b) Determine the Cournot equilibrium values for x₁, x₂, q₁, q₂, π₁, x₂.

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tich of the following will not increase the productivity of labor?
 technological advances
at is the equilibrium level of income for the following macro model of an open economy with endogenous taxes and imports
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a tools of fiscal policy include: (I) changing taxes and transfers; (II) changing interest rates.
en the GNP deflator goes up, it means that
                                                                                                    d. prices are failing
                                b. real GNP is falling
real GNP is rising
                                                              c. prices are rising
the required reserve ratio is 20 percent, a withdrawal of $100,000 from one bank will eventually cause the money supply to be
uced by
                                                                                                    d. $20,000
                                                              c. $40,000
                                b. $80,000
 $100,000
preciation is subtracted from GNP in order to find
                                                                                                    d. C + I + G
                                                              c. Di
                                b. NI
e most significant movement of the aggregate supply curve resulting from increased productivity is that it
                                                                                                    d. shifts downward
                                                              c. shifts upward
                                b. becomes steeper
 becomes flatter
ich of the following is likely to lead to a low level of investment?
                                                                                                    d. rapid growth of output
 optimistic expectations
                                b. low interest rates
                                                              c. substantial excess capacity
tich of the following will cause a rightward shift in the aggregate demand curve?
                                                                                                    d. a rise in GNP
 an increase in the price level b. a rise in imports
                                                              c. a rise in exports
e measure used by economists to gauge the standard of living of a nation is
                                b. productivity of labor
                                                                                                     d. GNP per capita
    · productivity
       "Blips curve is nearly horizontal", a
    ,: increase in unemployment will bring a small reduction in inflation
 small reduction in unemployment will bring a large reduction in inflation
 large increase in unemployment will bring a large increase in inflation
 small reduction in unemployment will not change the level of inflation
 period of stagflation will
 increase output to erase an inflationary gap
 increase prices to crase an inflationary gap
 remove an inflationary gap by decreasing prices and increasing output
 remove an inflationary gap by increasing prices and decreasing output
he effect of interest rates on business investment is that
 the higher the rate of interest, the larger the amount of investment
the higher the rate of interest, the smaller the amount of investment
 econometric studies show that the rate of interest has no effect on investment
 higher interest rates encourage investment during expansions and discourage investment during recessions
 ich of the following events would not cause a rightward shift in the aggregate supply curve?
                                                               b. a decrease in the average wage rates
  an increase in labor productivity
                                                               d. increased spending on the part of consumers
 a decrease in the cost of energy
Inder a balanced budget policy, a sharp decline in GNP will cause
, a small budget surplus
                                                               b, tax increase or expenditure cut
                                                               d. no serious budget changes
tax receipts to exceed government expenditures
balance of payments deficit occurs when
                                                               b. the price of the domestic currency is set too high
 the value of imports exceeds the value of exports
                                                               d. all of the above
individual consumers buy more than is sold abroad
he deficit can be defined in simple terms as
                                                               b. government expenditures + transfers + taxes
. government expenditures - transfers + taxes
  government expenditures + defense spending - taxes
                                                               d. government expenditures + transfers - taxes
exchange rates determined by the laws of supply and demand are called
                                                               b, fixed exchange rates
  equilibrium exchange rates
                                                               d. floating exchange rates
  dirty exchange rates
f an economy is equilibrium experiences an autonomous increase in the level of investment spending then inventories will be
                                                               b. depleted causing firms to expand production
, depleted causing firms to cut production
                                                               d, accumulated causing firms to cut production
  accumulated causing firms to expand production
, teriff is better than a quota because
                                                               b. quotas are inflexible
, it does not distort trade as much
                                                               d. quotas hart domestic producers, tariffs hurt foreign producers
, tariffs produce tax revenue
he crowding-out effect of higher interest rates can be avoided by
                                                               b. expansionary monetary policy
, expansionary fiscal policy
contracting monetary policy
                                                               d. decreasing taxes
Expansionary fiscal policy will be most effective at increasing GNP when
, the marginal propensity to consume is low
                                                               b. investment spending is sensitive to changes in the interest rate
                                                               d. investment spending is insensitive to the interest rate
, the economy has a high marginal tax rate
f workers always can see inflation coming, and if they demand full compensation for it in advance so that inflation does not erode
al wages, then the economy's aggregate supply curve on the price-income diagram
                                                               b. will slope downward
., will slope upward
                                                               d. will be a vertical line corresponding to potential GNP
 will be a horizontal line corresponding to potential GNP
The main reason why nations trade is because
                                                               b. the rate of interest is not the same in all countries
, trading provides opportunities to earn profits
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, resources are not equally distributed to all nations

. hurt the rich more than it would hurt the poor

, hurt everyone by the same amount

if all prices including wages increased at the same, constant rate, inflation would

d. some nations like to build one thing while others build another

b. hurt the poor more than it would hurt the rich

d. not hurt anyone