

2020 年国际经济学奥林匹克中国区初选(Open Round)
经济学知识测评(Economics)
专业组(Senior Level)

时间：2020 年 4 月 25 日 16:00-17:30

题目数量 30 道，满分 120 分，正确得 4 分，错误扣 1 分，不作答得 0 分

1. Two workers, Tom and Mary, can produce the following amount in one working day if they concentrate on producing only one of the products.

	Unit of banana		Unit of apple		Unit of orange
Tom	8	or	16	or	32
Mary	14	or	42	or	28

They decide to each produce 6 unit of banana at first, and then they specialize in the product that they have comparative advantage.

What will be the total output of apple and orange, in addition to the 12 unit of banana that is produced in one working day?

	Unit of apple	Unit of orange
Item I	4	16
Item II	24	8
Item III	26	11
Item IV	32	12

- A. Item I
 B. Item II
 C. Item III
 D. Item IV

答案:B

Content: comparative advantage

This question can be tracked to IEO2018 (16)

解题思路

1) 读题：

Tom 每天能生产商品分别是 4b or 16a or 32o. Mary 每天能生产的商品分别是 14b or 42a or 28o.

今天每人已经生产了 6 个 bananas。

对于 Tom 来说，还剩下 2b or 4a or 8o 的生产能力。对于 Mary，还剩下 8b or 24a or 16 o 的生产能力。

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- 2) Then they specialize in the product that they have comparative advantage.

需要理解评价 comparative advantage 的是 opportunity cost.

Comparative advantage is an economic term that refers to an economy's ability to produce goods and services at a lower opportunity cost than that of trade partners.

Tom: $1A=2O$, Mary: $1A=2/3O$, 所以同样生产 1A, Mary 的 opportunity cost 更小。所以 Mary specialize on A, 则 Tom specialize on O.

- 3) 看 Tom 和 Mary 剩下的生产能力, 结合 2 的分析结果, 看看还能各自生产的商品数量。

对于 Tom 还剩下 $2b=4a$; 对于 Mary 还剩下 $8b=16a$.

所以最后的答案是 Tom 生产 $24a$, Mary 生产 $8b$.

2. From the age of twenty-five after graduating from University, Steven made a living by purchasing gadgets and re-selling them outside the campus. Now, he runs a restaurant which has been temporarily closed because of corona-virus. Which factors of production are likely to be involved in the above events?

- A. land, labour, capital, enterprise
- B. land and labour only
- C. land, labour and capital only
- D. land only

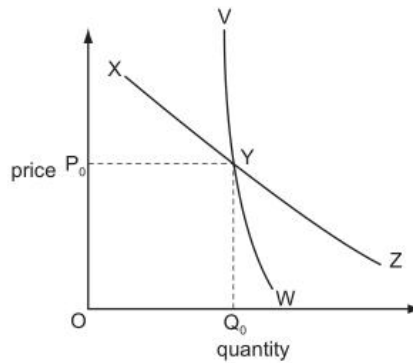
答案: A

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3. The diagram shows a consumer's short-run and long-run demand curves for peanuts. Initially, the consumer purchases quantity Q_0 at price P_0 .



If the price of peanuts increases from P_0 , the consumer's long-run response is greater than his short-run response. If the price decreases from P_0 , his short-run response is greater than his long-run response.

What is the consumer's long-run demand curve?

- A. VYW
- B. VYZ
- C. XYZ
- D. XYW

答案: D

Content: elasticity

4. Let MU_a be the marginal utility of an apple, MU_o be the marginal utility of an orange, P_a be the price of a apple, and P_o be the price of an orange. When the price of the goods is zero, Steven eats an apple. When Steven has to pay, she eats an orange. When Seven has to pay, which of the following is necessarily true?

- A. $MU_a = MU_o = P_a = P_o$
- B. $(MU_a / P_a) > (MU_o / P_o)$
- C. $P_a > P_o$
- D. $P_o > P_a$

答案: C

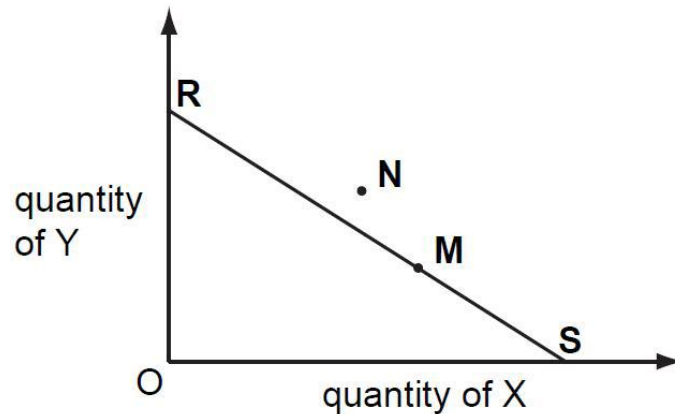
Content: utility

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5. The line RS in the diagram shows the different combinations of goods X and Y that a consumer can afford with his present income.



The consumer's original equilibrium is at M. What could explain a change in his equilibrium position to N?

- A. a change in his preference
- B. an increase in the price of X and a bigger percentage increase in the price of Y
- C. an increase in the price of X and an increase in his income
- D. equal percentage increases in his income and in both prices

答案: C

Content: indifference curve

6. A group of people were given a mug and then offered the chance to trade it for an equally valued pen. The compensation for the mug that the groups of people required once their ownership of the mug had been established was approximately twice as high as the amount they were willing to pay to acquire the mug. This logical fallacy is called ____.

- A. Survivorship bias
- B. Confirmation bias
- C. Self-fulfilling prophecy
- D. Endowment effect.

答案: D

Content: economic theory

This question can be tracked to IEO2018 (14)

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7. Instead of being employed at a restaurant at a salary of \$30,000 per year, Tom starts his own restaurant. Rather than renting a building that he owns to someone else for \$10,000 per year, she uses it as the location for his restaurant. His costs for workers, materials, advertising, and energy during his first year are \$135,000. If his entrepreneur talent of \$5000 which can be employed to open a bakery and he will take another \$5000 per year for his daily use. The total revenue from his restaurant is \$175,000, her total economic profit is
- A. -\$10,000
 - B. \$0
 - C. -\$5,000
 - D. \$10,000
 - E. \$5,000

答案: A

Content: economic cost and profit

The question can be traced to IEO2018 (14)

8. The intersection of the "investment–saving" (IS) and "liquidity preference–money supply" (LM) curves models "general equilibrium" where supposed simultaneous equilibrium in both the goods and the asset markets. This model was first developed by_____ in 1937.
- A. Alvin Harvey Hansen
 - B. John Hicks
 - C. John Maynard Keynes
 - D. Paul Samuelson

答案: B

Content: economist and their theory

The question can be tracked to IEO2018 (6)

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9. What makes it most likely that a firm's profits will be subject to huge fluctuations?
- A. It sells its product in a number of different markets.
 - B. It produces a diversified range of products.
 - C. It produces basic consumer products.
 - D. Fixed costs are a high percentage of total costs.

答案: D

Content: different cost

10. Which of the following is true?
- A. The accelerator effect will tend to be high when the rate change of consumer income and spending is strongly positive.
 - B. Firms will respond to growing demand by expanding production and making less use of their existing productive capacity.
 - C. The surge in capital investment in wind turbines is due to the super-high level of oil and gas prices and a decreasing market demand for renewable energy.
 - D. An increase in spending in an economy will cause a multiplied increase in gross domestic product because taxes increase as income increases

答案: A.

Content: accelerator theory

11. A perfectly competitive market has 100 firms, each of which has constant $MC = 10$. The demand function is given by $Q = 100 - P$. How much will the market price increase if all firms create a cartel and maximize joint profit?
- A. by 25
 - B. by 35
 - C. by 45
 - D. by 55

答案: C

Content: profit maximization and profit

IEO 2019 (11)

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12. Which of the following is correct?

- A. The most profitable level of output for any firm operating in the short run is the level of output at which marginal revenue exceeds marginal cost by the highest amount
- B. In the short run, if a firm produces the level of output at which marginal revenue is equal to marginal cost but price is less than average total cost, the firm will expand output to lower its average fixed cost
- C. In order to minimize short-run losses, a profit maximizing firm will necessarily shut down production under the conditions that marginal cost is greater than average total cost.
- D. Suppose that price in a perfectly competitive industry decreases and it is now below minimum average total cost but remains above minimum average variable cost, firms will produce the output at which marginal cost equals the new price in the short run.

答案: D

Content: Perfectly competitive market

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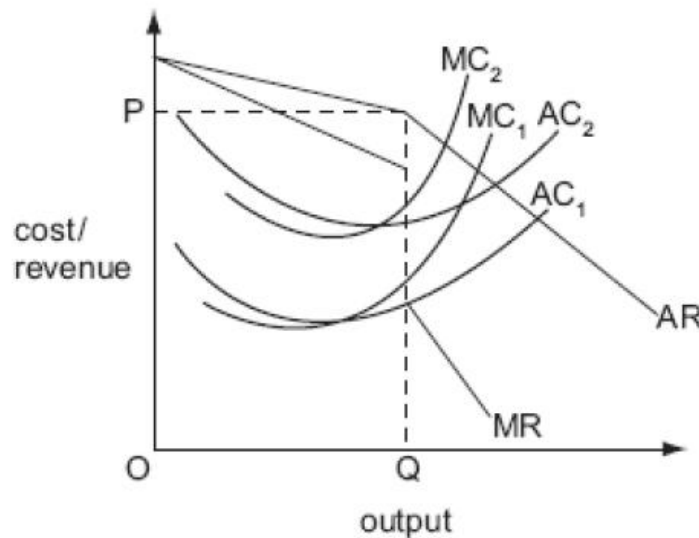
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13. The diagram shows the cost and revenue curves of an oligopolist. In the initial situation, AC_1 is its average cost curve, MC_1 is its marginal cost curve and the firm is in equilibrium at output OQ and price OP . The cost of labour rises, so that AC_2 and MC_2 become the relevant cost curves.

What should the firm do to maximize profit in this new situation?

- A. leave both price and output unchanged
- B. leave price unchanged and increase output
- C. leave price unchanged and reduce output
- D. raise price and leave output unchanged



答案: B

Content: Oligopoly

The question can be tracked to IEO2019 (8) (9)

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14. The table shows the main characteristics of employment in two occupations.

	Occupation X	Occupation Y
Length of training before being suitable to the job	2 year	4 year
The stability of the job	low	high
Annual working days	350 days	300 days
Annual leave days	15 days	65 days
Annual wage	\$300000	\$200000

What can be deduced from the table?

- A. Those employed in occupation Y attach greater importance to the stability of the job.
- B. Those employed in occupation X attach less importance to leisure activities.
- C. There will be more competition for places on training courses to enter occupation A than occupation Y.
- D. Occupation Y has greater non-pecuniary advantages than occupation X.

答案: D

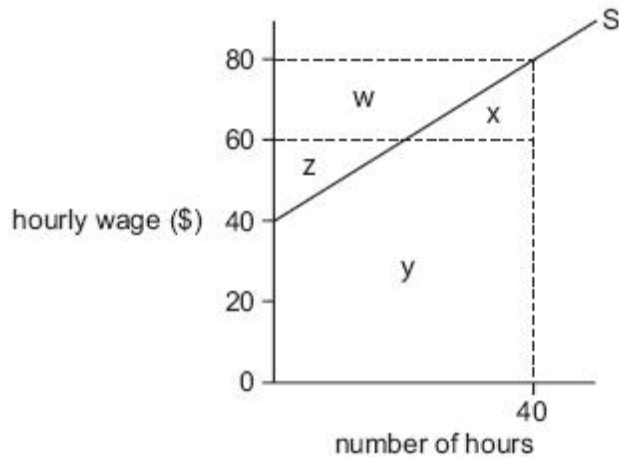
Content: Labor market

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15. The diagram shows an individual's supply of labour curve.



Tom is offered a job which would require him to work a standard 40-hour week.
Which area measures the lowest amount he would have to be paid per week to get him to accept this job offer?

- A. $w + x + z$
- B. $x + y$
- C. $x + y - z$
- D. $y + z$

答案: B

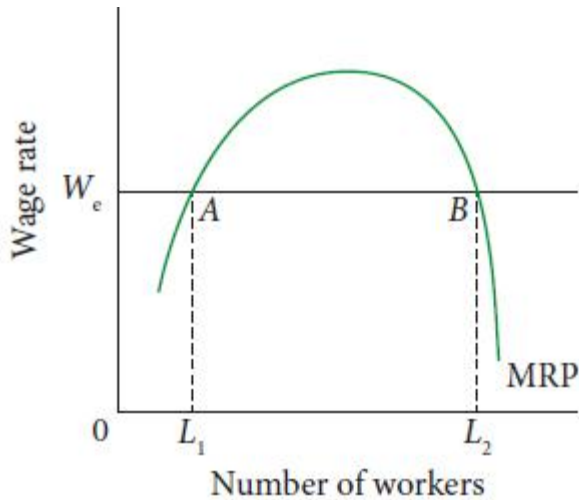
Content: Labor market

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16. In the diagram below, MRP is the marginal revenue product of a firm's labour and W_e is the equilibrium wage rate.



Assuming that this firm is a profit maximiser operating in a perfectly competitive market, which of the following statements is correct?

- A. Firm will employ L_1 workers and operate at A .
- B. Profits will be maximised where MRP is above the wage rate W_e .
- C. The firm will employ $L_1 - L_2$ number of workers.
- D. The firm will employ L_2 workers and operate at B .

答案: D

Contents: factor market

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17. A local government is considering to build a bridge between two ends of a river and the government has to choose one of four potential project for building this river. The benefits and costs of each project are shown below. Which project should be chosen?

Unit: Millions

	Private benefit	External benefit	Private cost	External cost
Item I	13	19	0.5	0.1
Item II	18	20	1.5	0.3
Item III	27	12	0.3	2
Item IV	20	17	3	4

- A. Item I
- B. Item II
- C. Item III
- D. Item IV

答案: C

Contents: externality

The questions can be traced back to IEO2018 (18)

18. Which of the following is correct?

- A. Multilateral aid is aid given by countries to countries.
- B. Sometimes in developing countries, governments serve the interest of a narrow range of groups in society with foreign aid.
- C. The governments of developing economies often argue for aid rather than trade.
- D. The income elasticity of demand for primary products is high, as world incomes have risen, there has been more demand.

答案: B

Contents: economic development

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19. A typical grace period offered by many credit card issuers is

- A. 0-10 days.
- B. 10-20 days.
- C. 20-25 days.
- D. 30-40 days.

答案: C

Contents: personal finance

20. The rate used to calculate the tax due on the next dollar of income is referred to as the

- A. AMT.
- B. Average tax rate.
- C. Income tax rate.
- D. Marginal tax rate.

答案: D

Contents: personal finance

21. Which of the following is not a necessary condition for continuous improvement (Kaizen) to operate?

- A. Empowerment
- B. Team working
- C. Management direction
- D. Involvement of all staff

答案: C

Contents: Business

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22. Which of the following is incorrect?

- A. If prices are rising at high rates then investors are reluctant to invest in new machinery, rising inflation leads to menu costs and those who are on fixed incomes, suffer as any increases lag well behind price rises.
- B. Sustainable development ensures that with economic growth both the standard of living and the quality of life improve in the future.
- C. The nearer an economy is to full employment, the higher output will be and the higher the living standards people are likely to enjoy.
- D. The government may attempt to raise the external value of the currency in order to reduce inflationary pressure.

答案: B

Contents: Government purpose

This question can be traced to IEO 2018(11)

23. As e-commerce expands, which of the following is a disadvantage to the product element of marketing mix?

- A. Allow for personalization of the products.
- B. Easier to provide product updates as well as detailed product specializations without having to provide printed brochures. thus reducing the environmental impact.
- C. The details of the product can now be provided in a more engaging and interactive way using pictures and videos via website enabling a rich introduction to a business and its product.
- D. Allows products to be easily copied by competitors.

答案: D

Contents: Business

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24. Which of the following statement is correct?
- A. Consumer price index is used to measure the change in prices of all goods and service produced in an economy.
 - B. The real interest earned is the cost of borrowing adjusted for the rate of change in the price level.
 - C. When Alex purchase his house, he took out a 10-year loan from a bank at a fixed interest rate of 6%, the rate of expected inflation was 3%. If the actual rate of inflation was 4.5%, the bank gained because the real rate of interest increased by 1.5%.
 - D. In the basic circular flow curve, households are users of resources, and business are sources of saving.

答案: B

Contents: Circular flow curve, inflation

25. Which of the following statement is correct?
- A. Unexpected inflation increases the economic well-being of net credits.
 - B. Inflation occurs when there is a sustained increase in the price of any commodity
 - C. Hyperinflation is mainly caused by rapid growth of money supply
 - D. If the inflation rate was 5% last year and 3% this year, it is negative inflation.

答案: C

Contents: inflation.

26. Which of the following is not a problem of measuring unemployment?
- A. It ignores retired workers who wish to continue with employment
 - B. The unemployment rate is an average measure and does not take into account variations in age, regional, ethnic and gender unemployment
 - C. It ignores underemployment
 - D. It overlooks discouraged workers

答案: A

Contents: unemployment

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27. Which of the following statement about the Keynesian model and new classical model is correct?

- A. The Keynesian model is in fact showing potential output, and the model does not allow the possibility of the output level to rise above the potential level.
- B. The new classical model shows the full employment level of output, which cannot exceed full employment level of output.
- C. When we need to show an inflationary gap, we should use the Keynesian model.
- D. Long run AS curve in Keynesian model shows economic growth

答案: A

Contents: economic policies

28. Which of the following statement is correct?

- A. The purchase of United States government bonds by Japanese investors will be included in Japan's trade deficit.
- B. If Australia has been experiencing a higher inflation rate than Canada over the past decade, Australia's currency will have appreciated relative to Canada's currency.
- C. As a result of higher tariffs imposed by its trading partners, the country can have an increased surplus in its balance of trade.
- D. An increase in the international value of United States dollar will benefit United States citizens living overseas on their social security check.

答案: D

Contents: exchange rate, balance of payment

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29. Which of the following statement is correct about balance of payment statement?
- A. In the economy with freely floating exchange rates, a deficit on the current account of balance of payment will result in a loss of foreign exchange reserves.
 - B. A country with alternative annual deficits and surplus in the current account mean that the country has a fundamental balance of payment disequilibrium.
 - C. On the Balance of payment, imported of cars from German is a credit item in current account.
 - D. When a UK company builds a factory in Kenya, Kenya's visible trade balance might be improved and its invisible trade balance might be worsen.

答案: D

Contents: balance of payment

30. Which of following statement is correct about the exchange rate?
- A. One advantage of floating exchange rate system is that the government allows the market to decide the rate.
 - B. In a managed exchange rate, exchange rates are free to float to their market values over long period of time.
 - C. A country with a fixed exchange rate experience an increase deficit on the current account of balance of payments, the country's interest rate is likely to increase.
 - D. Inconvertible currency means that the currency cannot be exchanged in the foreign exchange market and it will help transition smoothly.

答案: C

Contents: exchange rate