

MIDTERM EXAMINATION

Hanoi University of Science and Technology – TROY PROGRAM

Course: ECO251 – Principles of Macroeconomics

Code: 570

Time allowed: 20 minutes

Part 1: Multiple Choice Questions

Question 1: Missing

Question 2: Missing

Question 3: Missing

Question 4: Missing

Question 5: Missing

Question 6: Missing

Question 7: Missing

Question 8: Missing

Question 9: The labor force is best defined as:

- A. The ratio of employed persons to unemployed persons
 - B. The total number of unemployed persons
 - C. The ratio of unemployed persons to employed persons
 - D. The total number of employed persons plus the total number of unemployed persons
 - E. The total number of employed persons
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Question 10: Consumers, firms, and governments face __ because we are faced with the problem of __.

- A. Trade-offs; scarcity
- B. Marginal analysis; trade-offs
- C. Trade-offs; specialization
- D. Marginal analysis; scarcity
- E. Specialization and trade; normative economics

Question 11: Suppose $GDP = 10,000$, consumption = 7,000, investment = 1,500, and government spending = 2,500.

What are net exports?

- A. -100
 - B. $-1,000$
 - C. Exports = 1,000 and imports = 1,000
 - D. Exports = 1,000 and imports = 0
 - E. 1,000
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Question 12: Nominal GDP increases from 2,000 to 2,100. Why does real GDP remain unchanged?

- A. Price level increased by 5%
 - B. Price level decreased by 5%
 - C. Price level remained constant
 - D. Price level decreased by 2.5%
 - E. Price level increased by 1%
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Question 13: GDP can be calculated by which formula?

- A. $GDP = C + I + G + (X - M)$
 - B. $GDP = C - I + G + (M - X)$
 - C. $GDP = C + I + G$
 - D. $GDP = S + I$
 - E. $GDP = C + I + G + X$
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Question 14: In 2022, Jackie bought a used 1968 Ford Mustang for 40,000. When it was new, the Mustang sold for 5,000. How much did it contribute to GDP in 2022?

- A. 35,000
 - B. 40,000
 - C. 5,000
 - D. 0
 - E. 45,000
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Question 15: During a strong expansionary phase of the business cycle, which is likely true?

- A. Inflation rate is falling
 - B. GDP is rising
 - C. Unemployment rate is rising
 - D. Employment rate is falling
 - E. National income is falling
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Question 16: In a simple economy with no government sector, money paid by firms to households returns via:

- A. Export market → import market
 - B. Product markets → factor markets
 - C. Factor markets → product markets
 - D. Stock market → bond market
 - E. Foreign sector → domestic sector
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Question 17: What is the formula for inflation rate?

- A. $\frac{CPI_2 - CPI_1}{CPI_1} \times 100$
 - B. $\frac{CPI_1 - CPI_2}{CPI_2} \times 100$
 - C. $\frac{CPI_2}{CPI_1}$
 - D. $\frac{CPI_1}{CPI_2}$
 - E. $(CPI_2 - CPI_1) \times 100$
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Question 18: Which is an intermediate good?

- A. A new skateboard
 - B. Coal used to generate electricity
 - C. A doctor visit before vacation
 - D. Gasoline for your car
 - E. A vacation trip
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Question 19: Usually when the business cycle is in the __ stage, inflation is __.

- A. Trough; highest
 - B. Expansion; falling
 - C. Peak; lowest
 - D. Contraction; falling
 - E. Peak; negative
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Question 20: If $MPC = 0.75$, what is correct?

- A. Multiplier = 25
 - B. $MPC = 0.25$
 - C. Multiplier = 0.75
 - D. $MPC = 0.75$
 - E. $MPS = 0.75$
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Question 21: The sum of wages, interest, rent, and profit is:

- A. Net exports
 - B. Budget balance
 - C. National savings
 - D. Government spending
 - E. National income
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Question 22: The short-run fluctuations in economic activity are called:

- A. Aggregate demand curve
 - B. Business cycle
 - C. Economic growth rate
 - D. Circular flow model
 - E. Product life cycle
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Question 23: When the business cycle is in the __ stage, unemployment is __.

- A. Peak; highest
- B. Contraction; falling
- C. Expansion; falling

- D. Expansion; zero
 - E. Trough; lowest
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Question 24: Which transaction is included in GDP?

- A. Reading books at a public library
 - B. Selling a used textbook
 - C. Raking leaves for iced tea
 - D. Buying a new book
 - E. Saving 500 in a bank
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Question 25: Adding all spending in the economy to compute GDP is called:

- A. Income approach
 - B. Public sector approach
 - C. Value-added approach
 - D. Expenditure approach
 - E. National savings approach
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Part 2: Problem Solving

Problem 1

Given data:

Year	Vehicle Price	Quantity	Bread Price	Quantity	Tablet Price	Quantity
2022	11,000	300	2.0	6000	200	–
2023	12,000	320	2.5	7000	210	–

- a. Compute nominal GDP for 2022 and 2023.
 - b. Compute real GDP for 2023 using 2022 as base year and calculate growth rate.
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Problem 2

Given:

- $C_0 = 150$
 - $MPC = 0.8$
 - $I_0 = 320$
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a. Construct aggregate demand and find equilibrium income

b. Use Saving–Investment method