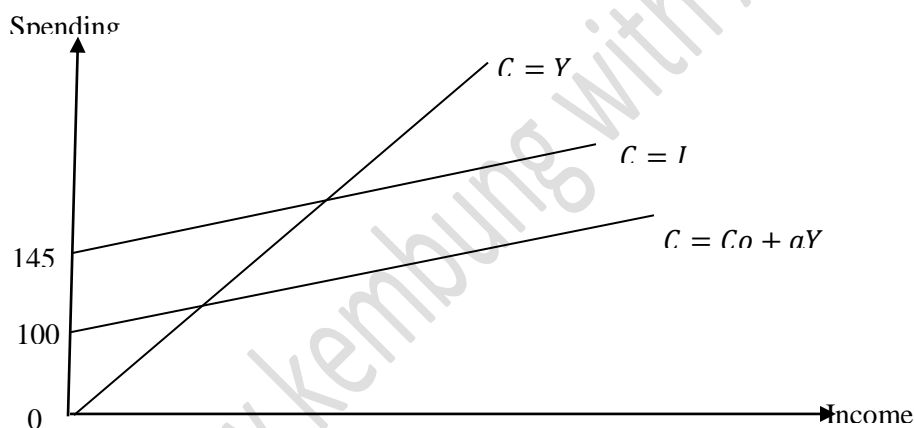


2. What type of economics is based on personal options?
3. What is likely effect of establishing a minimum price control above the equilibrium price?
4. Give one factor of an inward shift in the demand curve
5. A market situation with many sellers and a single buyer is called.....

Question 6 is based on the following diagram



6. From the function $Y = C + I = C_o + aY$ and the graph above the value of I is.....and C_o is.....
7. The impact of a minimum wage is greater when the demand and supply of labor are inelastic
8. “The decision of what to produce, how to produce and for whom to produce is based on the forces of demand and supply”. This is an example of.....
9. The market of a discriminating monopoly can be separated in terms of 1)and 2)

ECONOMICS 2008

1. Which is the fundamental economic principle illustrated by the population possibility curve?
2. What does economic efficiency requires?

3. State in one line what an isoquant represents

Questions 4 and 5 are based on the table below

Quantity	1	2	3	4	5	6
MU of A	16	12	8	5	2	1
MU of B	20	16	10	6	4	10

4. What would be the optimum combination of the 2 goods if a national consumer buys them at the same profit?
5. If the price of A increases from 1000frs to 2000frs and that of B remains constant at 1000F, and the income of the consumer increases from 3000F to 8000F. what will be the new optimum combination of the goods
6. When is a nation said to be living on its capital?
7. How is the problem of what to produce solve the in a capitalist society?
8. Name 2 forms of rationing when there is a shortage of a good in the market.

In questions 9 to 19 say True or False

9. When $MTR > ATR$, it shows a regressive tax regime
10. An increase in the supply of money will not affect the value of money if the additional money is absorbed into idle balance?
11. A Nationalized industry will adopt a price at the level of the output where $AR > MC$
12. Crowding in will occur if the government spends more than it rises in revenue.

Questions 13 and 14 are based on the table that follows

Price	5	6	7	8	9
Demand	20	18	15	13	10
Supply	10	13	15	18	20

13. If a subsidy of 2F per unit is granted to producers, what will be the new equilibrium?
14. If instead of a subsidy a tax of 2F is impose on the producers what will be the new equilibrium price?

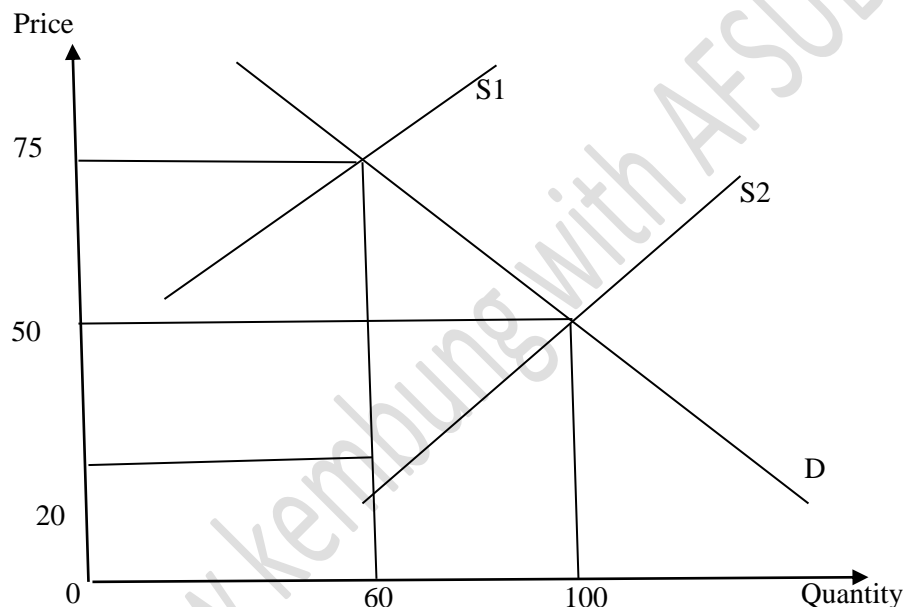
Question 15 and 16 are based on the following. Total domestic output = 400, Net exports = 10, Net property income from abroad = 30, Taxes on expenditure = 10, Subsidy = 5 and depreciation = 10. What is:

15. GDP at factor cost?
16. Value of national income

17. A consumption function is given as $C = 20 + 0.8d$, sketch the saving function:

18. Which is the most profitable asset to commercial banks?

Questions 19 to 21 are based on the diagram below. Write only the correct answer.



19. Value of tax per output is.....

20. Total revenue to the government from tax is

21. Total tax paid by consumer is

In questions 22 to 23 write only the letter corresponding to the write answer.

22. If the amount of a commodity purchases remains unchanged when the price of another commodity changes the gross elasticity between them is:

- a) Positive
- b) Negative
- c) Zero
- d) 1

23. When the average product of labor is positive but declining, the marginal product for labor will be:

- a) Declining

- b) Zero
- c) Negative
- d) Any of the above

GEOGRAPHY MINOR FOR ECONOMICS

- 1) Which of the following would not help to solve the problems of over – population A.
Increase in food production
B. Birth control
C. Limiting the size of towns
D. Reduction in the area of agricultural land
E. Migration
- 2) Viticulture is the name given to.
a. The manufacture of wine B. the extraction of grapes C. The growing of
Mediterranean fruits D. The cultivation of grapes
- 3) Market gardening does not need
a. Fertile soils B. Fast transport C. Good handling and packaging facilities D. A large
labour force.
- 4) Truck farming in North America refers to:
a. The cultivation of food crops for export
b. Specialized farming using unskilled farms
c. The intensive cultivation of vegetables
d. The growing of crops in large scale
e. Early fruits growing
- 5) The following is not a model of urban area
A. Burgeses and Park's model
B. Hani's and Ullman's model
C. None of these
D. Voa Thunen's

Questions 25 to 35 Answer True or False

- 6) South, Third World, and Developing countries refer to one and the same thing
- 7) Floods, droughts landslides and tsunami are not related

- 8) Pastoral normalism is commonly practiced in the tropical rainforest
- 9) Nucleated settlements are an indication of site security.
- 10) Egypt is not in sub – Saharan Africa
- 11) South Africa is the rain bow nation
- 12) Bakassi is found in the western borders of Cameroon with Niger
- 13) Lake chad is an inland drainage lake
- 14) There are no processes of desertification in Cameroon because the country is located at the equator.
- 15) The economic crisis in Cameroon during the 1990's can also be called an economic depression
- 16) The economy of Cameroon is based on one main primary product, that is petroleum

Question 17 to 20: Answer very briefly

With the aid of diagrams describe and explain the characteristics and mode of the following.

- 17) Voa Thunen's Model
- 18) Nodal town
- 19) Nucleated settlement
- 20) Linear settlement

MINOR MATHEMATICS FOR ECONOMICS

1. A trader sells an article at a profit of 12.5% of the cost price. If the selling price is 225, 000FCFA then the cost price is

A) **200, 000FCFA** B) 250, 000FCFA C) 211, 500FCFA D) 220,

Profit = 12.5% of the cost price

Let cost price be x , then selling price(225 000FCFA) = cost price + profit(E)

$$= 12.5\% \text{ of } x + \text{cost price } (x)$$

$$= \frac{12.5}{100}x + x = \frac{112.5x}{100}$$

From (E) we have $\frac{112.5x}{100} = 225000 \Rightarrow x = \mathbf{200,000FCFA}$

2. The distance 16, 517235km to the nearest meter is

A) 16. 517m B) 1.615m C) **16. 517m** D) 165. 172m A B C D

$$1\text{km} = 1000\text{m then } 16.517235\text{km} = \frac{16.517235\text{km} \times 1000\text{m}}{1\text{km}} = 16517.235\text{m} = \mathbf{16, 517m}$$

3. The total weight of three identical parcels is 25kg. The weight of each one of them to the one decimal place is

A) **8.3kg** B) 8.4kg C) 8.0kg D) 8.1kg A B C D

$$\text{Weight of each parcel} = \frac{25\text{kg}}{3} = \mathbf{8.3kg}$$

4. When the expression $7 - (-5 + 2)(-6)$ is simplified the answer is A B C D

A) -37 B) -93 C) 37 D) 63

$$7 - (-5 + 2)(-6) = 7 - (-3)(-6) = (7 - 18) = -11, \text{ No answer provided above}$$

5. A mixed school has a population of 256 pupils. Given that $\frac{5}{8}$ of these pupils are boys, then the number of girls is

A) 200 B) 160 C) 180 **D) 96** A B C D

$$\text{Number of girls} = \frac{5}{8} \times 256 = 160 \text{ girls}$$

$$\text{Number of boys} = \text{Total population} - \text{number of girls} = 256 - 160 = 96$$

6. A Paint was made by mixing 9tins of white paint with 6tins of green paint. Then the number of tins of white paint needed to mixed with 4tins of green paint to get the same color are

A) 9 **B) 6** C) 4 D) 5 A B C D

9tins \rightarrow 6tins of green paint

$$X \rightarrow 4 \text{ tins of green paint} \Rightarrow x = \frac{9 \times 4 \text{ tins}}{6} = 6 \text{ tins}$$

7. The scale of a map is 1m: 200km. if two towns are 2.8m apart on the map. What is their actual distance on the land?

A) 280km **B) 560km** C) 200km D) 5800km A B C D

If 1m \rightarrow 200km then 2.8m \rightarrow Actual distance(x).

$$\text{Thus Actual distance}(x) = 2.8 \times 200\text{km} = 560\text{km}$$

8. The average speed, in meters per second, of an athlete who covers 15km in 4minutes 10 seconds is

A) 60 B) **6** C) 0.6 D) 0.06 A B C D

$$\text{Speed} = \frac{\text{distance}(m)}{\text{time}(s)} = \frac{1500m}{40 \times 60 + 10} = 6m/s \text{ since 1minute is 60seconds}$$

Use the table below to answer questions 9, 10, and 11

Country	Afghanistan	Albania	Algeria	Andora	Argentina	Austria
Area in sq. km	6.48×10^5	2.90×10^4	2.38×10^6	5.02×10^2	2.77×10^6	8.40×10^4

9. Which of these countries has the largest surface area?

A) Albania B) Alger C) **Argentina** D) Afghanistan A B C D

10. Which of these countries has the smallest surface area?

A) Albania B) Austria C) **Andora** D) Afghanistan A B C D

11. Which of these countries has a surface area 1.5 and 2.5 million square km?

A) Algeria B) Albania C) Austria D) Andora A B C D

12. The value of x in the equation $\frac{6}{x-2} = 2$ is

A) 3 B) 10/2 C) 4 **D) 5** A B C D

$$\text{We have } 6 = 2(x - 2) \Rightarrow 2x = 10 \Leftrightarrow x = 5$$

13. Two numbers a and b are such that $a + b = 10$ and $a - b = 2$. what are the values of a and b?

A) 2 and 8 B) 4 and 6 C) **6 and 4** D) 5 and 5 A B C D

$$\text{We have } \begin{cases} a + b = 10 \dots (1) \\ a - b = 2 \dots (2) \end{cases} \Rightarrow \begin{cases} a = 10 - b \\ 10 - b - b = 2 \end{cases} \Rightarrow \begin{cases} 2b = 8 \\ a = 10 - b \end{cases} \Rightarrow \begin{cases} b = 4 \\ a = 6 \end{cases}$$

14. If Y varies as the cube root of X and Y = 24 when X = 2, then the value of Y when X = $\frac{1}{2}$ is

A) 1/3 **B) 3/8** C) 8/3 **D) 6** A B C D

$$\text{We have } Y \propto X^3 \Rightarrow Y = kX^3 \text{ or } k = \frac{Y}{X^3} \Rightarrow k_1 = \frac{Y_1}{X_1^3} = \frac{24}{8} = 3 \text{ and } k_2 = \frac{Y_2}{X_2^3} = \frac{Y_2}{\frac{1}{8}}$$

$$\text{But } k_1 = k_2 \Rightarrow \frac{Y_2}{\frac{1}{8}} = 3 \Rightarrow Y_2 = \frac{1}{8} \times 3 = \frac{3}{8}$$

15. The frequency, F, of a radio station is inversely proportionally to wave length w. The relation between F and w is

A) **Fw = k** B) F = w/k C) w = F/k D) kF = w A B C D

We have $F \propto \frac{1}{w} \Rightarrow F = \frac{k}{w} \Leftrightarrow Fw = k$

16. The gradient of line is 5 and the line passes through the point (-1, 2). The equation of this line is given by:

A) $y = 5x + 7$ B) $y = -x + 7$ C) $y = 5x - 7$ D) $y = -5x$ A B C D

We have $\frac{y-2}{(x-1)} = 5 \Rightarrow y - 2 = 5(x + 1) \Rightarrow y - 2 = 5x + 5 \Rightarrow y = 5x + 7$

17. The solution of inequality $x + 3 > 9$ is

A) $x > 6$ B) $x < 6$ C) $x > -6$ D) $x = 6$ A B C D

We have $x + 3 > 9 \Rightarrow x + 3 - 3 > 9 - 3 \Rightarrow x > 6$ subtracting 3 on both sides of the equation.

18. A six sided fair die is tossed. What is the probability that a greater than 4 is obtained

A) 4/6 B) 2/3 C) 1/3 D) 1/6 A B C D

19. A man has 3 pairs of white socks and 2 pairs of black socks which are all kept in a bag. He removes two socks from the bag at random to wear. What is the probability that the two socks are of different colors?

A) 1/5 B) 1/6 C) 1/24 D) 1/12 A B C D

20. A carton in the form of a cube has length of 7.5cm. What is its total surface area?

A) 33.75cm.sq B) 337.5cm.sq C) 3.374cm.sq D) 3375cm.sq A B C D

21. The sides of a rhombus is are 13cm long. The length of one its diagonals is 24cm. what is the length of the original diagonal ?

A) 11cm B) 5cm C) 10cm D) 27cm A B C D

22. In the triangle ABC, AB = 4cm, BC = 3cm and there is a right angle at B

Then the length of AC is A) 7cm B) 6cm C) 5cm D) 4cm A B C D

From Pythagoras' theorem we have

22. The distance between the points A(1,6) and B(-5, -2)

A) 10 B) 6 C) 8 D) 14 A B C D

We have $D = \sqrt{(-5 - 1)^2 + (-2 - 6)^2} = \sqrt{36 + 64} = \sqrt{100} = 10$

23. Let $\mathbf{OA} = 2\mathbf{i} - 3\mathbf{j}$, and $\mathbf{OB} = 4\mathbf{i} + \mathbf{j}$ be position vectors. Then the vector \mathbf{AB} is given by;

A) $6\mathbf{i} - 2\mathbf{j}$ B) $-2\mathbf{i} - 4\mathbf{j}$ C) $-6\mathbf{i} + 2\mathbf{j}$ D) $2\mathbf{i} + 4\mathbf{j}$ A B C D

We have $\mathbf{OA} + \mathbf{AB} = \mathbf{OB} \Rightarrow \mathbf{AB} = \mathbf{OB} - \mathbf{OA}$

$\Rightarrow \mathbf{AB} = (4\mathbf{i} + \mathbf{j}) - (2\mathbf{i} - 3\mathbf{j}) = 2\mathbf{i} + 4\mathbf{j}$

24. Given that the vectors $\mathbf{a} = 6\mathbf{i} + 4\mathbf{j}$ and $\mathbf{b} = k\mathbf{i} - 8\mathbf{j}$ are parallel. What is the value of k? A) 12

B) 8 C) -3 D) -12 A B C D

We have $|a, b| = 0 \Rightarrow \begin{vmatrix} 6 & 4 \\ k & -8 \end{vmatrix} = 6(-8) - 4k = 0 \Rightarrow -4k = 48 \Leftrightarrow k = -12$

25. The real valued function, f is defined by $f(x) = 5x$, for any real x. The image of 4 under this map is A) 1

B) 9 C) -9 D) -1 A B C D

26. Let A, B, C and D be sets, f and g maps such that $f: A \rightarrow B$, and $g: C \rightarrow D$

Which of the following statement is the most correct?

A) $B = C$ B) range of f lies in C C) $B = C$ D) $A = B = C = D$ A B C D

27. Given that the determinant of the matrix $\begin{pmatrix} 3 & 2 \\ x & -1 \end{pmatrix}$ is 9. What is the value of x?

A) 5 B) 6 C) -6 D) 3 A B C D

We have $\left| \begin{pmatrix} 3 & 2 \\ x & -1 \end{pmatrix} \right| = 3(-1) - 2x = -3 - 2x = 9 \Rightarrow -2x = 12$

$\Rightarrow -\frac{2}{-2}x = \frac{12}{-2} \Rightarrow x = -6$