# CUET PG ( Heath and Sent Eco)

9. Given the demand function as  $p=\frac{1}{4}q^{-\frac{1}{2}}$ , consumer's surplus at q=25 is: A. 1.12 
8. 1.25 
C. 1 
D. 0.5

10. The demand and supply functions are given as :  $P_0 = 30 - 5x$  and  $P_S = 3x - 10$  respectively(x=quantity). The consumer surplus is

(A) 125
(B) -62.5(C) -62.5(D) -125

11. What is the value of the equilibrium level of income for the data given below for an economy?

c = 50 + 0.8 Yd

t = 20%

l = 100

G = 30

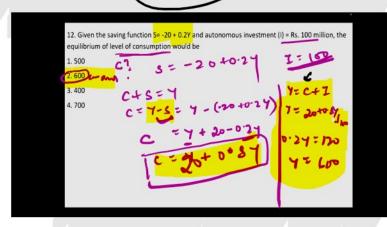
1. 400

2. 300

3. 500

4. 600

4. 600



13. In an economy, the saving and investment functions are given as: S = -100 + 0.2 y I = -30 + 0.1 yWhat will be equilibrium level of income?

2. P= 1/2 e.s al-(2-25).

CS = JO(2) d2 - Px Q\*

P= 1/4 2 25

[4 2 1/2) d4 - Px Q\*

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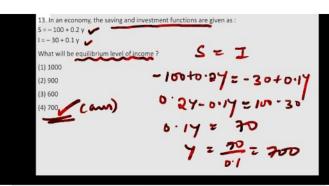
equil: Pa=1; 3 30-57: 3x-10

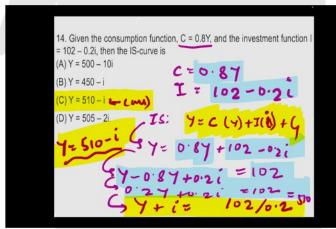
ex: ((30-52) d7 - 1×0 ... P: 3×5-11

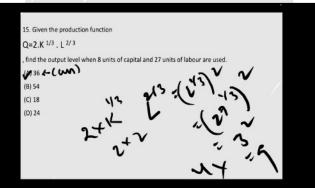
= 30 [x], - 5 [x²], - 25

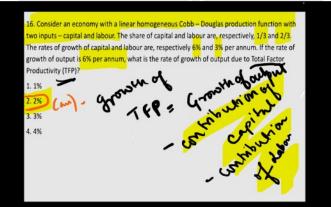
= 30[6] - 5 [x²], - 25

= 30[6] - 5 [x²], - 26









 $= 30[5] - \frac{5}{5}[25] - 25$   $= 30 - 125 - 25 = 300 - 125 \cdot 50$   $= 150 - 125 - 25 = 300 - 125 \cdot 50$ 

Y-5= C= 20+0.87 17=100

7= 20+0. 84 HBO

17. When nominal GDP is 11,000 crores and real GDP is `10,000 crores, GDP deflator is:

D. 110

A. 9.09

B. 90.91

C. 1.11

19. Match the Economists with their field of contribution in

Mathematical economics

List I List II

(a) Slutsky (i) Linear programming
(b) Arrow (ii) Input - output analysis
(c) Leontief (iii) Consumer behaviour analysis
(d) Dantzig (iv) CES production function

Choose the right combination

1. (a) – ii, (b) – iv, (c) – i, (d) – iii

2. (a) – iii, (b) – iv, (c) – ii, (d) – i

3. (a) – i, (b) – ii, (c) – iv, (d) – iii

4. (a) – iv, (b) – i, (c) – iii, (d) – ii

- 20. Which of the following is condition of economic viability and technological feasibility of Leontief's static system?
- A. Marshall-Edgeworth conditions
- B. Kuhn-Tucker conditions
- C. Hawkins-Simon conditions
- D. Value of the objective function of primal problem should equal the value of the objective function of the dual of the primal

1.In quantitative research paradigm which of the following sampling methods are given preference?

A.Simple random sampling

**8**.Stratified sampling

C.Quota sampling

D.Snowball sampling

Systematic sampling

Choose the correct answer from the options given below.

1. A, B and C only

2. A, B and E only

3. B, C and D only

4. C, D and E only

Sompling & Sampling trech

Sompling & Sampling trech

Lon-probable

1. Simple

2. Stranfied

2. Porposite

3.In a multiple linear regression with independent variables, the overall regression's significance is to be tested. Which test would be used?

1. Z test

2. test

3. Chi-square test

4. t-test

4.In a frequency distribution the standard deviation of which is 20, the value of median is more than mean by 6, what will be its coefficient of skewness?

(A) - 0.76

(B) + 0.80

(C) - 0.85

S.L. 3(7)

6.Given the following data When Number of observations = 140 Arithmetic Mean = 200 Variance = 256 then coefficient of variation will by

(1) 12.4%

(2) 10%

8 8 m

(4) 1.8%

Cn : 8 + 100 + 10 = 51

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-186. 2 0. 9 can)

- 7. Which of the following statements is correct
- The coefficient of correlation is the geometric mean of two regression coefficients
- The coefficient of correlation lies between -1 and +1
- 3.The coefficient of correlation is independent of change of origin Not scale
- 1. सहसंबंध का गुणांक दो प्रतीपगमन गुणांकों का ज्यामितीय माध्य है
- 2. सहसंबंध का गुणांक -1 और +1 . के बीच होता है
- 3. सहसंबंध का गुणांक मूल के परिवर्तन से स्वतंत्र है पैमाना नहीं

Codes:

A.1 only

B.1 and3

and 2 can

D. 1,2 and3

8.Two people X and Y apply for a job in a company. The probability of the selection of X is 4/5, and Y is 6/8. What is the probability that both of them get selected? दो व्यक्ति X और Y एक कंपनी में नौकरी के लिए आवेदन करते हैं। एक्स के चयन की संभावना 2/5 है, और वाई 4/7 है। दोनों के चुने जाने की क्या प्रायिकता है?

1.1/6

2.6/10

3.8/40

4.3/13

- 9. The average value of the series is 320 and most frequent value of the series is 180 and standard deviation is 50 theo coefficient of skewness will be
- 1. -1.8
- 2. 2.8
- 3. 7.5
- 4. -8.5

## 10. Which of the following methods satisfy only time reversal test

- 1. Kelly's method
- 2. Dorbish bowley's method
- 3. Marshall edgeworth method
- 4. Fisher's method

- 11. Match the items in List-I and List-II and answer from the codes given below :
- (a) Standard Deviation
- (i) Positively skewed distribution

(iv) Probability based sampling

- (b) Stratified Random Sampling
- (ii) Analysis of attributes
- (c) Coefficient of Association
- (iii) Measure of dispersion
- (d) Mean > Mode
- u) Weart > WO
- Codes : (a) (b) (c) (d)
- (1) (iv) (ii) (iii) (i)
- (2) (i) (ii) (iii) (iv)
- (3) (iv) (iii) (ii) (i)
- (4) (iii) (iv) (ii) (i)
- 12. Fisher's method of constructing index is called 'ideal' because
- It is based on the geometric mean which is theoretically considered to Be the best average for constructing index numbers
- 2. It satisfies both the time reversal and factor reversal tests
- 3. It takes only into account year prices and quantities
- 4. It is unbias

#### Codes:

- 1. 1, 2and3
- 2. 1 and2
- 3. 1,2 and4
- 4. 1,2,3and4
- 13. Which of the following statements is correct
- 1. The coefficient of correlation is the geometric mean of two regression coefficients
- 2. The coefficient of correlation lies between -1 and +1
- 3.The coefficient of correlation is independent of change of origin and scale

#### Codes:

- 1. 1 only
- 2. 1 and 3
- 3. 1 and 2
- 4. 1,2 and3
- 14. Given arithmetic mean = 150, mode = 120, then median =
- (A) 130
- (B) 135
- (C) 140
- (D) 125

15.The estimated regression lines are given as follows:

Y=10+0.3 X

X=-4+2.7 Y

Then the coefficient of correlation between X and Y is.

(A) 0.3

(B) 0.79

(C) 0.80

(D) 0.90

## 17. Mean and variance of which of the following

A Bernoulli distribution

B. Binomial distribution

C. Poisson distribution

D.Normal distribution

## 18. The normal distribution was discovered by

A. Bernoulli

B. Abraham De. Moivre.

C. Alfred normal

D. Karl pearson

### 20.Match the following.

A.Contingency table	1.Stationarity
B.Unit root test	2. Causality
C.Fisher's test	3.Chi-square test
D.Granger test	4.Test of significance of overall regression

- 1. A-3 B-1 C-4 D-2
- 2. A-1 B-2 C-3 D-4
- 3 A-4 B-3 C-2 D-1
- 4. A-2 B-3 C-1

16.A coin is thrown 3 times .what is the probability that atleast one head is obtained?

- 1. 1/8
- 2. 7/8
- 3. 1/6
- 4. 5/6

Sample space = [HHH, HHT, HTH, THH, THT, HTT, TTT] Total number of ways =  $2 \times 2 \times 2 = 8$ . Fav. Cases = 7

P(A) = 7/8

OR

P (of getting at least one head) = 1 - P (no head)  $\rightarrow 1 - (1/8) = 7/8$ 

19.Standard normal variation is normally distributed with mean and variance.

A.0,1.

B. 1,0

C. 1,1

D. 0.0