FOURTH SEMESTER B.A. DEGREE (SUPPLEMENTARY) EXAMINATION APRIL 2017

(UG-CCSS)

Economics

EC 4B 05-QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS-II

(2009-2012 Admissions)

Time: Three Hours

Maximum : 30 Weightage

Part I (Objective Type Questions)

(Include Multiple Choice, Fill in the blanks and Answer in Single Word).

Answer all twelve questions.

1.	Lower	de la	-			
	Potetta	curve	18	used	to	measure :

(a) Skewness.

(b) Kurtosis.

(c) Dispersion.

- (d) Central tendency.
- 2. The value of the correlation coefficient 'r' when the two regression lines coincide :
 - (a) r>0.

(b) r < 1.

(c) r = 0.

- (d) r = 1.
- 3. Mean weight of 8 observations is 9. A new observation 18 is added, then mean weight 9 observation is:
 - (a) 8.

(b) 9.

(c) 10.

- (d) None of these.
- 4. The lines of regression intersect at the point :
 - (a) (x,y).

(b) (x, y).

(c) (0, 0).

- (d) (1, 1).
- 5. When there is perfect negative correlation the value of the coefficient of correlation is -
- Death rate obtained for a segment of the population is known as ———.

Tur

- 7. We use stratified sampling when the population is -
- The point of intersection of less than and greater than ogive is-
- Write the equation to calculate coefficient of quartile deviation?
- Which index number has current year quantity as weight?
- The only graphic method to determine dispersion.
- 12. What is the symbol used to denote standard deviation?

 $(12 \times 34 = 3 \text{ weightage})$

Part II (Short Answer Type Questions)

Answer all nine questions.

- 13. What is Pie diagram?
- Estimate mode given mean is 25 and median is 27.
- 15. What do you mean by regression?
- 16. Define Kurtosis.
- 17. Distinguish between Correlation and Regression.
- 18. Define Stratified Sampling.
- 19. Define Net Reproduction Rate.
- 20. What is a moving average?
- 21. What is factor reversal test?

 $(9 \times 1 = 9 \text{ weightage})$

Part III (Short Essay or Paragraph Questions)

Answer any five questions from seven.

22. Fit a straight line trend by the method of least squares:

Year	2005	0000	_				
	2005	2006	2007	2008	2009	2010	2011
Production (000' tonnes)	10	13	12	14	10	100	4.0
imate the most libeter			100000	~ ~	14	16	14

Estimate the most likely production for 2012.

- 23. Define the terms: Crude Birth Rates, Crude Death Rates and Specific Fertility Rates.
- Explain correlation coefficient.

Commodity	2	008	e following data :			
Modity	Price	P	2009			
A	4	Expenditure	Prion	Expenditure		
В	- 2	32	5	40		
С	5	50	6	72		
D	3	18	4	28		
hat are the	8	40	10	40		

- 26. What are the properties of an average?
- The following table gives the population of India on the basis of region according to 1961 census represents it by Pie diagram.
- 28. What are the advantages of Sampling over Census?

Religion	- The over Census :							
rengion	Hindu	Muslim	Christian	others				
Population (in Lakhs)	3665	469	10	248				

 $(5 \times 2 = 10)$ weightag

Part IV (Essay Questions)

Answer any two questions from three.

- 29. Briefly explain the various methods of sampling.
- 30. What are index numbers? Explain the problems involved in the construction of index numbers
- 31. For ten observations each on price (X) and supply (Y), the following data are obtained :

$$\Sigma X = 130$$
, $\Sigma Y = 220$, $\Sigma XY = 3467$

$$\Sigma X^2 = 2228, \Sigma Y^2 = 5506.$$

Determine two regression equations.

 $(2 \times 4 = 8)$ weigh