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(Pages : 3)

Name.....

Reg. No.....

**THIRD SEMESTER B.A. DEGREE (SUPPLEMENTARY) EXAMINATION
NOVEMBER 2016**

(UG—CCSS)

Economics

EC 3B 03—QUANTITATIVE METHODS FOR ECONOMICS ANALYSIS—I

(2013 Admissions)

Time : Three Hours

Maximum : 30 Weightage

I. Objective type questions. Answer all *twelve* questions :

- 1 The process of grouping items according to their common characteristics is known as :
(a) Tabulation. (b) Classification.
(c) Elimination. (d) None of these.
- 2 10 is the mean of 7 observations and 5 is the mean of 3 observations. The mean of the combined set is :
(a) 8.5. (b) 5.
(c) 0. (d) 10.
- 3 The point of intersection of less than and greater than ogives corresponds to :
(a) Mode. (b) Mean.
(c) Range. (d) Median.
- 4 The geometric mean of the numbers 2,4, 16,32 is :
(a) 8. (b) 16.
(c) 1. (d) 2.
- 5 Which of the following is a relative measure of dispersion ?
(a) Coefficient of variation. (b) Range.
(c) Mode. (d) Standard deviation.
- 6 Sum of squares of deviations of observations is least when measured from :
(a) Mean. (b) Median.
(c) Mode. (d) Range.

Turn over

- 7 In a symmetric distribution :
- (a) Mean > mode. (b) Mean < mode.
(c) Mean = mode. (d) None of these.
- 8 The value of coefficient of correlation :
- (a) Always positive. (b) Always negative.
(c) Lies between -1 and 1. (d) None of these.
- 9 Unit test is satisfied by :
- (a) Laspeyre's. (b) Paasche's.
(c) Fisher's. (d) All the above.
- 10 The oscillatory movements in time series with period of oscillation more than one year is called :
- (a) Trend. (b) Cyclic variation.
(c) Seasonal variation. (d) Irregular variation.
- 11 The term 'econometrics' was coined by :
- (a) Marshall. (b) Pawel.
(c) Ragnar Frisch. (d) Clompa.
- 12 Regressor refers to :
- (a) Independent variable. (b) Dependent variable.
(c) Error term. (d) Dummy variable.

(12 × ¼ = 3 weightage)

II. Short answer type questions. Answer all *nine* questions :

- 13 What do you mean by secondary data ?
- 14 What is a frequency table ?
- 15 What are the factors to be noted while using an average ?
- 16 What is the use of coefficient of variation
- 17 What is the use of scatter diagram ?
- 18 Give two properties of correlation coefficient.

- 19 What are link relatives ?
- 20 What are the various models used in the study of time series ?
- 21 What are the goals of econometrics ?

(9 × 1 = 9 weightage)

III. Short essay or paragraph questions. Answer any *five* questions :

- 22 Write a short note on bar charts ?
- 23 What are the various methods for collecting primary data ?
- 24 State the desirable properties of a measure of dispersion
- 25 Coefficient of correlation between two variables x and y is 0.3 and their covariance is. The variance of x is 16. Find the standard deviation of y .
- 26 Write short note on consumer price index
- 27 Explain the terms seasonal variation and cyclical variation
- 28 Briefly explain the limitations of econometrics.

(5 × 2 = 10 weightage)

IV. Essay questions. Answer any *two* questions :

- 29 Calculate the mean deviation about mode from the following data :

Class	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40
Frequency	100	125	130	175	140	110	90	80

- 30 Compute the centred 4- yearly moving average for the following time series :

year	2001	2002	2003	2004	2005	2006	2007	2008	2009
value	103	104	107	101	102	104	105	99	100

- 31 Briefly explain the construction of the following index numbers :

- (a) Laspeyre's
- (b) Paasche's ; and
- (c) Fisher's ; and
- (d) Marshall- Edgeworth.

(2 × 4 = 8 weightage)