Table 1				
63	0.040	14	n	10
	- 4	8.29	ъ.	Sec.
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(Pages: 3)

Name	

Reg. No.....

FOURTH SEMESTER B.A. DEGREE EXAMINATION, MARCH 2013

(CCSS)

Economics

EC4 B05-QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS-II

ime : Three Hours	Manhaman - 90 Walaktana
rune : Inree-nours	- Maximum : 30 Weightage

			Part I (Objective T	y	pe Questions)			
		(Include Mult	iple Choise, Fill in the b Answer all twel		ndes and answer in single word)			
1.	The pr	esence of extre	me items effects :					
	(a)	Mode.	(b)		AM.			
	(c)	Median.	(d)	6	None of these.			
2.	The po	e point of intersection of less than and greater than ogive is :						
	(a)	Mean.	(b)		Median			
	(c)	Mode.	(d)	Van	GM.			
3.	Mean	deviation is mir	nimum when taken about	t:				
	(a)	Median.	(b)	100	A.M.			
24	(c)	G.M.	(d)	ii.	Mode.			
4.	The m 20 nun		bers is 13 and the mea	n	of 13 numbers is 7. What is the mean of all			
	(a)	18.2.	(b)		9.37.			
	(c)	10.	(d)		9.1.			
5.	Cost of	living index is	also known as					
6.	. The best average for index number construction is							
7.	Lorenz curve is used to measure ———.							
8.	When t	the measure of	Kurtosis is less than 3, th	he	distribution is ————,			
9.	What i	s the G.M. of 2	and 32 ?					
10.	Varian	ce can be denot	ed as.					
11.	Which	index number	has base year quantity a	LIS /	weight 2			
12.	Write t	the formula for	calculating price relative	11				
					$(12 \times \% = 3 \text{ weightage})$			

Part II (Short Answer Type Questions)

Answer all nine questions.

- 13. What is "Vital Statistics"?
- 14. What is chain base index number? How is it computed?
- 15. Define Systematic Sampling.
- If the regression line of y on x is y = 11.9 0.65 x and that x on y is x = 16.4 1.3 y. Find the correlation coefficient.
- 17. Define Gross Reproduction Rate.
- 18. Define Fisher's ideal index.
- 19. Define Bowley's coefficient of skewness.
- 20. Estimate mode given that mean is 25 and median is 27.
- 21. What do you mean by regression?

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

Part III (Short Essay or Paragraph Questions)

Answer any five questions.

- 22. Explain skewness. What are the different measures of skewness?
- 23. The following data give the number of finished articles turned out per day by different number of workers in a factory:

No. of articles : 18 19 20 21 22 23 24 25 26 27 No. of workes : 3 7 11 14 18 17 13 8 5 4

Find mean and standard deviation.

- 24. How do you construct consumer price index number?
- 25. Draw a Lorenz curve for the following data :-

Income (Rs.) ... 10 15 20 25 30 35 No. of persons ... 4 12 15 18 9 3

- 26. What are the mathematical properties of Arithmetic mean?
- 27. Calculate the mode from the following series using grouping and analysis tables:

Marks ... 0-10 10-20 20-30 30-40 40-50 50-60 60-70 No. of students ... 5 7 19 18 16 10 5

28. Draw a histogram to the following frequency distribution :-

Age : 10-15 15-20 20-30 30-40 40-50 50-75 75-100 Frequency: 4 12 20 18 14 25 10

 $(5 \times 2 = 10 \text{ weightage})$

Part IV (Essay Questions)

Answer any two questions.

29. Construct Fisher's Ideal Index for the following data and show how it satisfies. Time Reversal test and Factor Reverse test:

	200	2	2003		
Commodities	Quantity	Price	Quantity	Price	
A	20	-12	30	14	
В	13	14	15	20	
C	12	10	20	15	
D	8	6	10	-34	
E	- 5	8	5	6	

- 30. Explain the meaning and significance of correlation. Which are the important methods of studying correlation?
- 31. From the data given below calculate (i) Gross Reproduction Rate; (ii) Net Reproduction Rate:

Age Group		Female Population	Female Births	Survival Factor	
15-19	95	1400000	15130	0.969	
20-24	40	1420000	94150	0.967	
25-29	-	1520000	102670	0.963	
30-34	20	1750000	72490	0.958	
35-39	-	1450000	31400	0.952	
40-44	-	1690000	10640	0.942	
45-49		1670000	700	0.928	
				297.5	

 $(2 \times 4 = 8 \text{ weightage})$