

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 86
(For Candidates admitted during the academic year 2011 – 2012 & thereafter)

SUBJECT CODE: 11EC/AC/SE14

B.A. DEGREE EXAMINATION NOVEMBER 2012
BRANCH IV – ECONOMICS
FIRST SEMESTER

COURSE : ALLIED - CORE
PAPER : STATISTICS FOR ECONOMICS - I
TIME : 3 HOURS

MAX.MARKS: 100

SECTION – A

I. ANSWER ALL QUESTIONS:- **(10x2=20)**

1. Define Statistics.
2. What is Primary Data?
3. List out the Types of Classification.
4. What is Tabulation?
5. Calculate Median of the following 6 observations: 100, 97, 120, 75, 175, 150
6. State any two merits of Mode.
7. Calculate the Range and Co-efficient of Range from the following data:
60, 70, 80, 100, 120, 140, 200
8. What is Lorenz Curve?
9. What is an Index Number?
10. What do you mean by Time Reversal Test?

SECTION-B

II. ANSWER ANY FIVE QUESTIONS :- **(5x8=40)**

11. Explain the functions and limitations of Statistics.
12. Explain the various methods adopted in the collection of primary data.
13. Point out the importance of diagrams and graphs.
14. What is Histogram? Draw a Histogram for the following data.

Wages in Rupees	0-10	10-20	20-30	30-40	40-50	50-60
No. of workers	5	8	10	14	11	16

15. Determine Geometric Mean for the following distribution.

x	135	231	352	430
f	2	3	4	3

16. What is Skewness? Calculate Bowley's Co-efficient of Skewness for the following data.
 $Q_3=34.02$, $Q_1=25.33$, Median=28.47
17. What is Consumer Price Index Number? Explain the steps involved in the construction of Consumer Price Index Number.

SECTION-C

III. ANSWER ANY TWO QUESTIONS :- (2x20=40)

18. Discuss the random and non-random Sampling methods.

19. Calculate Arithmetic Mean, Median and Mode from the following data.

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students	5	10	25	30	20	10

20. What are the merits and demerits of Standard Deviation? Calculate Standard Deviation from the following data, where Assumed Mean=25.

x	0-10	10-20	20-30	30-40	40-50
f	3	4	7	6	5

21. Compute Laspeyre's, Paasche's and Fisher's Ideal Index Numbers from the following data.

Commodity	Base Year (2005)		Current Year (2010)	
	Price	Quantity	Price	Quantity
A	4	50	10	40
B	3	10	9	2
C	2	5	4	2
