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 2014
BRANCH IV – ECONOMICS
FIRST SEMESTER

COURSE   : ALLIED - CORE
PAPER   : STATISTICS FOR ECONOMICS - I
TIME   : 3 HOURS   MAX.MARKS: 100

SECTION – A

I.   **ANSWER <u>ALL</u> QUESTIONS:-**   **(10x2=20)**

1. State any two Limitations of Statistics.
2. Specify any two Methods of Collecting Primary data.
3. What do you mean by Tabulation of Data?
4. Explain Pie diagram.
5. Find Median and mode for the following data.
    6, 8, 11, 7, 8, 12, 6, 8.
6. What are the Merits of Geometric Mean?
7. Calculate quartile deviation and its Coefficient, if Q_3=62 and Q_1=54.
8. Define kurtosis.
9. What is an Index numbers?
10. Compute consumer Price Index when ΣPV= 10,000 and $\Sigma V = 80$.

SECTION-B
II.   **ANSWER ANY <u>FIVE</u> QUESTIONS :-**   **(5x8=40)**

11. Describe the functions of Statistics.
12. Explain the types of classification of data with suitable examples.
13. Discuss the importance of graphic representation of data.
14. What are the merits of Mode? Compute the Mode from the following data:

Class Interval	1–5	5–10	10–15	15–20	20–25
Frequency	7	10	16	32	24

15. From the following data: Calculate Quartile Deviation and Coefficient of Quartile Deviation:

Marks	25–35	35–45	45–55	55–65	65–75
No. of Students	2	10	25	16	7

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16. Using Step deviation method, Calculate Standard Deviation of the Series, (where assumed mean is 35).

Marks	0–10	10–20	20–30	30–40	40–50	50–60	60–70
No. of Students	5	10	20	40	30	20	10

17. Explain Features and the uses of Index Numbers.

SECTION-C

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

18. Discuss the various Probability and Non- Probability Sampling Methods.
19. From the following data calculate Arithmetic Mean, Median and Mode. (Assumed mean is 35)

Class Interval	0–10	10–20	20–30	30–40	40–50	50–60	60–70
Frequency	10	20	35	40	25	25	15

20. Calculate Karl Pearson's Coefficient of Skewness for the following data.

Marks	0–20	20–40	40–60	60–80	80–100
No. of Student	15	20	30	25	10

21. Calculate Fisher's Ideal Index Number from the following data. Does it satisfy Time Reversal Test? Prove it:

Commodity	Price		Quantity	
	2010	2013	2010	2013
A	3	4	20	18
B	4	5	25	20
C	2	2	10	12
D	8	10	12	10
E	20	25	40	40

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