

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

SUBJECT CODE: 11EC/AC/SE14

B.A. DEGREE EXAMINATION NOVEMBER 2011  
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=20marks)

1. Define Statistics.
2. Write a note on Secondary data.
3. What is meant by 'Tabulation' of data?
4. What are the different types of classification of data?
5. State any three properties of Averages.
6. Distinguish between Standard Deviation and Coefficient of Variation.
7. What is Lorenz curve?
8. Distinguish between Skewness and Kurtosis.
9. Given  $Q_1 = 15$  and  $Q_3 = 40$ , find Coefficient of Quartile deviation.
10. Write a note on Consumer Price Index.

SECTION-B

II. Answer any FIVE questions :- (5x8=40marks)

11. Point out the difference between Primary data and Secondary data.

12. Calculate Mean Deviation from Median for the following data:-

X:	10	11	12	13	14
Frequency:	3	12	18	12	3

13. From the following data, compute the value of Harmonic Mean:

Marks	10	20	30	40	50
No: of Students	20	30	50	15	5

14. ABC Ltd is actively considering the following two mutually exclusive projects for operation :

YEAR	Project X- cost profit (Rs Lakhs)	Project Y- cost profit (Rs Lakhs)
1	10	5
2	5	25
3	20	45
4	40	30
5	60	30

Which of the TWO is more risky project?

15. In a certain data, the following four main characteristics with their sub-characteristics are present:-

<u>Main Characteristics</u>	<u>Sub-Characteristics</u>
Locality	Urban, Rural
Religion	Hindus, Non-Hindus
Sex	Males, Females
Age	0-30, 30-60 and above

Prepare a suitable Table.

16. Briefly explain the various uses of Index Numbers.

17. Draw a Pie Diagram for the following data of 6<sup>th</sup> five year plan outlay:

Agriculture and Rural Development	12.9%
Irrigation	12.5%
Energy	27.2%
Industry and Minerals	15.4%
Transport and Communication	15.9%
Social Services	16.1%

### SECTION-C

III. Answer any TWO questions :-

(2x20=40marks)

18. Examine the nature and scope of Statistics by pointing out its various functions.

19. Calculate Mean, Median and Mode for the following data :-

Size	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
Frequency	11	19	21	16	10	8	6	3	1

20. Calculate the Karlpearsons' Coefficient of Skewness for the following series:-

X	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5
frequency	28	42	54	108	129	61	45	33

21. Prove that Fishers' Ideal Index satisfies the Time Reversal Test and Factor Reversal Test.

Commodities	$P_0$	$Q_0$	$P_1Q_1$	$Q_1$
A	2	8	24	6
B	5	10	30	5
C	4	14	50	10
D	2	19	26	13

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