



23. You are given the distribution of wages in two factories X and Y. State in which factory the wages are more variable.

Wages (in Rs.)	Number of workers	
	Factory X	Factory Y
500 – 1000	2	6
1000 – 1500	9	11
1500 – 2000	29	18
2000 – 2500	54	32
2500 – 3000	11	27
3000 – 3500	5	11

24. Fit a parabolic curve of second degree to the data given below and estimate the value for 1990 and comment on it.

Year	1984	1985	1986	1987	1988
Sales	10	12	13	10	8

(in million Rs.)

25. Fit a straight line trend by the method of least squares to the following data. Assuming that the same rate of change continues, what would be the predicted earnings for the year 1988?

Year	Earnings (Rs. Lakhs)
1979	38
1980	40
1981	65
1982	72
1983	69
1984	60
1985	87
1986	95



Reg. No. :

Name :

I Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.)
 Examination, November 2017
 CORE COURSE IN STATISTICS
 1B01 STA : Descriptive Statistics
 (2014 Admn. Onwards)

Time : 3 Hours

Max. Marks : 48

Instruction : Use of calculator and statistical tables are permitted.

PART – A

Short answer. Answer **all** the 6 questions.

(6×1=6)

1. Define statistics as statistical data.
2. Define law of statistical regularity.
3. What is mean by a parameter?
4. What are the difference between nominal data and ordinal data?
5. Define central moments.
6. Write short note on quartile deviation.

PART – B

Short essay. Answer **any** 7 questions.

(7×2=14)

7. What are the limitations of statistics?
8. What are the difference between primary data and secondary data?
9. Explain the importance of classification and tabulation.
10. Calculate arithmetic mean for the following data.

Number of students appeared	Percentage passed
85	90
55	100
150	80
100	85
120	75

