

**Parvatibai Chowgule College of Arts and Science
Autonomous**

B.sc. Semester End Examination, JAN/FEB 2022

Semester: V

Subject: Geography

Title: GEG-SE12: Quantitative Techniques in Geography (Elective)

Duration: 2 Hours

Max. Marks: 45

Instructions:

1. All questions are compulsory.
2. Figures on right side indicate marks.

Q1. Answer any **THREE** of the following.

a. "Standard deviation is an improved measure over mean deviation". **(3X3=09)**
Justify the above statement with suitable example.

b. The first four central moments of a distribution are 0, 2.5, 0.7, and 18.75.
Test the skewness and kurtosis of distribution.

c. Calculate mean deviation from mean and median for the following data.

100	150	200	250	360	490	500	600	67
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Source: Source: Gupta S.C (2015), *Fundamentals of statistics*. Himalaya publishing house, Delhi - 110007.

d. Prices of a particular commodity in five years in two cities are given below.

Price in City A	Price in City B
20	10
22	20
19	18
23	12
16	15

Source: Bagewathi, V, Pillai R.S.N (2005) *Statistics theory and practice*, S. Chand and Company Ltd., New