

Sylhet Cadet College
Fortnightly Examination - 2022
Class: XI
Subject: Statistics First Paper
Subject Code: 129

Time: 40 minutes

Full Marks: 20

Answer all the questions. Figures in the right indicate full marks.

1. If $\sum_{i=1}^{10} x_i = 20$, find, $\sum_{i=1}^{10} (x_i - 4)$ [Hint: Expand the expression] 3
2. Prove the following statements:
 - (a) $\sum_{i=1}^{10} cx_i = c \sum_{i=1}^{10} x_i$ 3
 - (b) $\sum_{i=1}^m (bx_i - c) = b \sum_{i=1}^m x_i - mc$ 4
 - (c) $\sum_{i=1}^{20} c = 20c$ 2
3. Are the following variables discrete or continuous? 2
Income, distance of stars in km, radius of screws, diameter of trees
4. Write the scale of measurement of the variables given below 3
Gender, temperature, income group (Lower class, Low, Middle, High), marks in exam, number of daily accidents in Bangladesh, room no.
5. Explain the difference between discrete and continuous variables with examples 3