

Pabna Cadet College
First Fortnightly Examination - 2021
Subject: Statistics
Class: XI

Time: 40 minutes

Full Marks: 20

Answer all the question.

1. Information about Marks of students of two classes are

Class	No. of Students	\bar{X}	σ
XI	51	82	2
XII	52	86	5

- a. What is a measure of dispersion? 1
- b. When do we get the least possible value of variance? Explain in short. 2
- c. Estimate the combined standard deviation of the marks. 3
- d. Which class performed better? Justify mathematically. 4

2. Answer concisely

- a. If the unit of mean is cm, what is the unit of standard deviation? 1
- b. If $n = 10$, $\sum x_i = 110$, and $\sum x_i^2 = 1400$, find C.V. 3
- c. Find σ of -3, 0, 3. 1
- d. Find the C.V. of the series: $1, 3, 5, \dots, (2n - 1)$ 5

—Good Luck—