

Sylhet Cadet College
Half-Yearly Examination - 2023
Class: XI

Subject: Statistics First Paper (MCQ) **Set: C**

Time: 20 minutes

Subject Code: 129

Full Marks: 25

Answer all the questions. Each question is worth one (1) mark.

1. **In case of positive skewness, which one is correct?**

- (a) $Mean > Median > Mode$ (b) $Mean < Median < Mode$
(c) $Mean = Median = Mode$ (d) $Mean > Median < Mode$

2. **The first raw moment about 3 is -5. What is the value of arithmetic mean?**

- (a) 2 (b) -2 (c) 0 (d) 8

3. **For a symmetrical distribution, $\beta_1 =$**

- (a) 1 (b) -1 (c) 0 (d) 3

4. **For a mesokurtik distribution, $\beta_2 =$ --**

- (a) 0 (b) -3 (c) 3 (d) 1

5. **Moments can be--**

- i. positive
ii. not negative
iii. positive or negative

Which one is correct?

- (a) i and ii (b) i and iii (c) ii and iii (d) i, ii and iii

6. **First moment around a is equal to --**

- (a) 1 (b) 0 (c) -1 (d) $\bar{x} - a$

7. **Which measure is unit-free?**

- (a) Range (b) Mean deviation (c) Standard deviation (d) Coefficient of variation

Answer Key

1. (a) $Mean > Median > Mode$
2. (b) -2
3. (c) 0
4. (c) 3
5. (b) i and iii
6. (d) $\bar{x} - a$
7. (d) Coefficient of variation