

**SYLHET CADET COLLEGE**

FIRST TERM-END EXAMINATION - 2023

CLASS: XI

MULTIPLE CHOICE QUESTIONS

STATISTICS FIRST PAPER

TIME – 20 minutes

FULL MARKS – 20

Set	:A
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Subject Code:	1	2	9
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[N.B. – Answer all the questions. Each question carries ONE mark. Block fully, with a black ball- point pen, the circle of the letter that stands for the correct/best answer in the “Answer sheet” for the Multiple Choice Questions Examination.]

**Candidates are asked not to leave any mark or spot on the question paper.**

1. **Which is not a function of statistics?**  
(a) Data collection                      (b) Data organization                      (c) Analysis                      (d) Database creation
2. **Which one is an example of an infinite population?**  
(a) Students of Dhaka University                      (b) Cadets of SCC  
(c) Minor planets in the solar system                      (d) Red blood cells in a person’s body
3. **If a rate is defined as  $R = \frac{c}{d}$ , where c is constant, then which measure is perfect?**  
(a) Weighted arithmetic mean                      (b) Harmonic mean  
(c) Quadratic mean                      (d) Weighted geometric mean
4. **Capital and profit belong to a variable which is–**  
i. Bivariate  
ii. Quantitative  
iii. Qualitative  
**Which one is correct?**  
(a) i and ii                      (b) i and iii                      (c) ii and iii                      (d) i, ii and iii
5. **Which formula is correct for harmonic mean?**  
(a)  $\frac{n}{\sum_{i=1}^n \frac{f_i}{x_i}}$                       (b)  $\frac{f_i}{\sum_{i=1}^n \frac{f_i}{x_i}}$                       (c)  $\frac{\sum f_i}{\sum_{i=1}^n \frac{f_i}{x_i}}$                       (d)  $\frac{\sum f_i}{\sum_{i=1}^n \frac{1}{x_i}}$
6. **Which of the following may be used to determine mode?**  
(a) Histogram                      (b) Frequency Curve                      (c) Ogive                      (d) Frequency Polygon

**Answer the next three question based on the following information.**

**A farmer collects growth (in cm) of 10 plants in a month and finds that  $\sum x_i = 7$  and  $\sum x_i^2 = 15$**

7. **Which is considered statistics?**  
(a) Jaman obtained 75 in statistics                      (b) Shafiq lives at Road no. 5  
(c) Mean monthly income in a city is 60,000 taka                      (d) Width of a book is 10 cm
8. **What is the value of  $\sum (x_i + 4)$ ?**  
(a) 23                      (b) 47                      (c) 22                      (d) 11

**Answer the next two questions as per the following information.**

42 44 59 64 70 72 74 91 94 are 9 values.

9. **What is the 50th percentile?**  
(a) 64                      (b) 70                      (c) 72                      (d) 71
10. **Below which value lie 70 percent values?**  
(a) 42                      (b) 44                      (c) 59                      (d) 74
11. **Above which value lie 30% observations?**  
(a) 3rd Quartile                      (b) Median                      (c) 30th Percentile                      (d) 70th percentile

Answer Key

1. (d) Database creation
2. (d) Red blood cells in a person's body
3. (b) Harmonic mean
4. (a) i and ii
5. (a)  $\frac{n}{\sum_{i=1}^n \frac{f_i}{x_i}}$
6. (a) Histogram
7. (c) Mean monthly income in a city is 160,000 taka
8. (b) 47
9. (b) 70
10. (d) 74
11. (d) 74th percentile