SYLHET CADET COLLEGE

FIRST TERM-END EXAMINATION - 2024

CLASS: XII

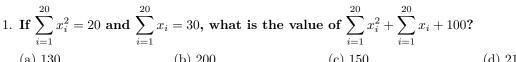
MULTIPLE CHOICE QUESTIONS

STATISTICS FIRST PAPER

TIME - 25 minutes $FULL\ MARKS-25$

Subject Code:	1	2	9

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



- (d) 2130

- 2. Which of the following is a continuous variable?
 - (a) Number of goals

- (b) Natural number
- (c) Summation of Fibonacci series
- (d) Success rate

3. If
$$x_1 = 4$$
, $x_2 = 1$, $x_3 = -2$, and $x_4 = 3$, find $\sum_{i=1}^{4} (x_i^2 + 3)$?

- (b) 50
- (d) 56

Answer the next three questions based on the following information.

The values of x_i and f_i are given below:

- 4. Find $\sum_{i=1}^{4} f_i x_i$.
- (b) 74
- (c) 56
- (d) 60

- 5. Compute $\sum_{i=1}^4 f_i x_i^2.$
 - (a) 256
- (c) 476
- (d) 300

- 6. Determine $\sum_{i=1}^{4} f_i(x_i-5)^2$.
 - (a) 61
- (b) 48
- (c) 52
- (d) 58

Answer the next THREE questions based on the following information.

The weights of 120 fruits were recorded and this frequency distribution was constructed.

Weight (grams)	0-50	50-100	100-150	150-200
No. of Fruits	30	35	25	30

- 7. How many fruits weigh at least 100 grams?
 - (a) 55
- (b) 50
- (c) 60
- (d) 65

- 8. How many fruits weigh less than 100 grams?
- (b) 70
- (c) 65
- (d) 50
- 9. What percent of fruits weigh between 50 and 150 grams?
 - (a) 50%
- (b) 55%
- (c) 60%
- (d) 75%

[&]quot;It is a capital mistake to theorize before one has data." - Sir Arthur Conan Doyle

Answer Key

1. (c) 150

4. (b) 74

7. (a) 55

- 2. (d) Success rate
- 5. (c) 476

8. (c) 65

3. (c) 42

6. (a) 61

9. (c) 60%