

SYLHET CADET COLLEGE

PRE-TEST EXAMINATION - 2023

CLASS: XII

MULTIPLE CHOICE QUESTIONS

STATISTICS SECOND PAPER

TIME – 25 minutes

FULL MARKS – 25

Set	C
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Subject Code: 

1	3	0
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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. Three objects can be placed in 2 positions in – ways.

- (a) 3 (b) 4 (c) 6 (d) 8

2. A die is thrown twice. This is called –

- (a) An experiment (b) sample space (c) A random experiment (d) A trial

3. A coin is thrown thrice. How many outcomes are generated?

- (a) 3 (b) 4 (c) 8 (d) 9

Answer the next three questions using the following information

$P(A) = \frac{1}{3}, P(B) = \frac{1}{2} \& P(A \cup B) = \frac{7}{12}$

4.  $P(A \cap B) = ?$

- (a)  $\frac{5}{12}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{4}$  (d)  $\frac{15}{16}$

5.  $P(A \cap \bar{B}) = ?$

- (a)  $\frac{1}{4}$  (b)  $\frac{3}{4}$  (c)  $\frac{5}{6}$  (d)  $\frac{1}{12}$

6. What is the probability that B occurs or A does not occur?

- (a)  $\frac{3}{4}$  (b)  $\frac{7}{12}$  (c)  $\frac{5}{12}$  (d)  $\frac{11}{12}$

7. Possible value of probability

- i. -1 ii. 0.5 iii. 0

Which one is correct?

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