Sylhet Cadet College
Fortnightly Examination - 2022
Class: XII
Subject: Statistics 2nd Paper Subject Code: 129

Answer all the questions. Figures in the right indicate full marks.

1. Define the following terms with example.

Experiment, sample space, event, simple event, mutually excluysive event.
2. A box contains four blue and 6 green balls. 3 balls are drawn randomly.
(a) What is the value of ${ }^{n} C_{r}$ ? 1
(b) Illustrate the difference between permutation and combination with an example. 2
(c) What is the probability that all balls are green? 3
(d) What is the probabilith that one ball has a different color? 4
3. Write down the conditions of the axiomatic approach of probability. 3
4. What is the probability that Grameenphone sim numbers starting with 017 end with 0 ? 2

