

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

Time: 40 minutes

Full Marks: 20

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

1. **Define the following terms with example.** 5
Experiment, sample space, event, simple event, mutually exclusive event.
2. **A box contains four blue and 6 green balls. 3 balls are drawn randomly.**
 - (a) What is the value of nC_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 probability 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