## Sylhet Cadet College Fortnightly Examination - 2022 Class: XII

Subject: Statistics 2nd Paper

Time: 40 minutes Subject Code: 129 Full Marks: 20

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 exclusive event.	5
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