Prabhat Kumar College, Contai

Department of Mathematics

4th Semester Mathematics (Hons) CBCS Pattern

Paper: SEC-2

Time: 1 hours

Answer any one :-

- 1. Prove that the number of odd vertices in a graph is even.
- 2. The maximum degree of any vertex in a simple graph with n vertices is (n 1).
- 3. The maximum number of edges in a simple graph with n vertices is $\frac{n(n-1)}{2}$.