**OCTOBER IV WEEKLY TEST**

**CLASS XII MATHS**

**Time-30min M.M.10**

***NOTE:- Attempt all the questions.***

**1. Find the value of  so that the vectors = 2i+j+k and = i-2j+3k are perpendicular each other. (2)**

**2. Prove that | |2 = a2 b2 – (2) (2)**

**3. Find the unit vector perpendicular to both  and**

** (2)**

**4. If ,and are three vectors of magnitude 3,4, and 5 respectively such that each one is perpendicular to the sum of the other two vectors. Prove that І ++ І =5. (4)**

**THE END**