

**ASSIGNMENT**  
**Sem-3 (Statistics)**

- Q.1] Give the meaning of limit of a function and state the rules of limit.
- Q.2] Explain probability mass function of negative binomial distribution and give its properties.
- Q.3] Explain the following terms:
- (1) Random experiment.
  - (2) Exhaustive events.
  - (3) Independent events.
  - (4) Difference events.
  - (5) Baye's theorem.
- Q.4] Write down: (1) Properties of mathematical expectation.  
(2) Relation between raw moments and central moments.

