

**B.Com 4<sup>th</sup> semester INTERNAL QUESTION (Hons/Pass)**

**BCH/BCP: 4.2: Business Mathematics**

Answer **any one** questions from the followings:

1. Solve by the matrix method:  
 $3x+2y+4z=19$ ,  $2x-y+z=3$  &  $6x+7y-z=17$
2. Define limit .Discuss the characteristics and Algebra of limit.
3. Find the 2<sup>nd</sup> and 3<sup>rd</sup> order differential coefficient with respect to 'x' when  $y= x^3.\log x$
4. Define Annuity. Briefly explain the characteristics and various types of annuities with suitable example.
5. Evaluate:  $\int x^4.(\log_e x)^2 dx$
6. Write short notes on:-
  - a) Linear Programming Problem (LPP)
  - b) Steps in testing continuity of a function.

\*\*\*