**Course Code:  ENT321**                                          **Credit Units: 2**

**Course Title:  Quantitative Methods for Business Decision**
**Time Allowed:  2 hours**

**Instructions: 1. Attempt question number one (1) and any other two (2).**
                           **2. Question number 1 is compulsory and carries 30 marks while the other**
                                **2 questions  carry 20 marks each.**
                             **3. Present all your points in coherent and orderly manner**


1. (a) Define your understanding of the word "linear equation."
   (b) Solve for the unknown in the following linear equation:   $20a - 5 = 10a$

2.     Solve the following:   $2(x+4) = 7x + 2$

3.     List and discuss the three important measures of central tendency.

4.     Explain the three important measures of variations listed below:
       *       Range
       *       Standard deviation
       *       Coefficient of variation

5.     From your knowledge of theory of sets, explain the following:
       (a)     Universal set
       (b)     Complement of a set
       (c)     Set intersection