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**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

 **UNIVERSITY EXAMINATIONS 2015/2016**

**YEAR III SEMESTER II EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL HEALTH, PRODUCTION AND PROCESSING**

**AHS 2307: EXPERIMENTAL DESIGN AND ANALYSIS**

**DATE: APRIL 2016 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER ALL QUESTION IN SECTION A AND ANY OTHER TWO QUESTIONS IN SECTION B**

**SECTION A**

**QUESTION ONE**

1. Describe the stages of scientific inquiry. [8 marks]
2. Give the features of a good experiment. [10 marks]
3. Describe the THREE principles of experimental design. [6 marks]
4. Describe THREE types of linear models [6 marks]
5. Given the following data, work out the regression line of X and Y assuming that the respective heights X and Y are from a sample of 12 fathers and their oldest sons.

Y = a0 + a1X

X Y

65 68

63 66

67 68

64 65

68 69

62 66

70 68

66 65

67 71

69 67

71 70

66 69