

**UNIVERSITY OF KABIANGA**

**UNIVERSITY EXAMINATIONS**

**2017/2018 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF EDUCATION(SCIENCE)**

**COURSE CODE: *CIM 311***

**COURSE TITLE: MATHEMATICS FOR EDUCATION**

**Instruction to candidates:**

Answer question **ONE** and any other **THREE** questions

**QUESTION ONE-COMPULSORY-30 MARKS**

1. Briefly explain the meaning of the following elements in a mathematical lesson plan.
2. Lesson topic. (2 marks)
3. Lesson objective. (2 marks)
4. Instructional Aids. (2 marks)
5. Lesson Development. (2 marks)
6. Chalkboard layout. (2 marks)
7. Prepare a 40-minute Form 2 Lesson Plan on the topic “Solving pairs of linear equations simultaneously using the Graphical method.” (15 marks)

**QUESTION TWO-20 MARKS**

1. Briefly explain the significance of the “Individualized Instruction” approach in the teaching and learning of Mathematics. (5 marks)
2. Discuss any FOUR ways through which the individualized instruction approach can be effectively applied in the teaching and learning of Mathematics. (15 marks)

**QUESTION THREE-20 MARKS**

Identify any one learning theory and discuss its main features, clearly pointing out its application in the teaching and learning of Mathematics. (20 marks)

**QUESTION FOUR-20 MARKS**

1. Discuss the role of testing in Mathematics. (6 marks)
2. Discuss the relationship that exists among the major stages in the process of test construction. (14 marks)

**QUESTION FIVE-20 MARKS**

1. Distinguish between two-Dimensional and three-Dimensional instructional materials. (4 marks)
2. Explain how tins with circular cross-sections can be used as instructional aids in teaching the concepts of circumference, arc and diameter of a circle. (16 marks)