Uganda Martyrs University

**Faculty of Education**
**SEMESTER ONE EXAMINATIONS 2022/2023**
**DIPLOMA IN EDUCATION (PRIMARY) YEAR 1**
**MATHEMATICS EDUCATION**
**PAPER ONE: TEACHING MATHEMATIC IN THE PRIMARY SCHOOLS 1**
Date: 13.1.2023          3hrs          Time: 9:30am-12:30pm

**Instructions:**

- **Attempt only FOUR questions.**
- **ALL questions carry equal marks.**
- **Read the detailed instructions in the examination booklet**
- **Do not write on this question paper**

1. (a) Discuss the reasons why mathematics needs to be taught in primary school in Uganda.

   (b) Explain three major goals of teaching mathematics in primary schools in Uganda.

2. (a) Explain how the Uganda primary school mathematics caters for the hierarchical nature of mathematics?

   (b) Discuss the aspects that can promote logical thinking in mathematics amongst learners.

3. (a) Why are formulae and notations important in the learning of mathematics?

   (b) Give five different notations and formulae which learners are expected to meet when learning mathematics at primary school level.

   (c) Design an activity in form of a problem that you can give to P.7 pupils requiring them to use one of the formulae stated above. Give a possible solution to the activity you have designed.

4. (a) List down the materials a teacher would need for carrying out practical work involving measurement in the primary school.

   (b) Discuss how you can teach subtraction using practical work.

5. (a) By using specific examples, discuss how mathematics can be used as a tool in the study of;

   (i) Agriculture,

   (ii) Social studies.

   (b) Give reasons why teachers need the basic knowledge of mathematics execution of their duties.

6. (a) State the difficulties you are likely to face when you want to represent a cuboid on a blackboard.

   (b) Discuss six ways of how children interpret variables in mathematics.

**END**