

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF EDUCATION (PRIMARY OPTION)

PECI 121: INTRODUCTION TO BASIC MATHEMATICAL CONCEPTS

STREAMS: BED (P)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 15/04/2020

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- Answer question ONE and any other TWO
- Do not write on the question paper

- Distinguish the following terms as used in mathematics [10 marks]
 - Number and digit
 - Rote counting and rational counting
 - Number sense and number value
 - Mathematical symbol and mathematical formula
 - Primary concepts and secondary concepts
 - Highlight reasons of teaching mathematics to learners at primary school level [10 marks]
 - Elaborate on the nature of mathematics [10 marks]
- Discuss the four (4) ways of expressing fractions in mathematics [20 marks]
- Explain the role of the teacher in mathematics lesson [10 marks]
 - Highlight on the prenumber activities [10 marks]
- Discuss any ancient number system [10 marks]
 - Explain the contributions of Jerome Bruner theory in teaching and learning mathematics [10 marks]