



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS
THIRD YEAR EXAMINATION FOR THE AWARD OF
THE DEGREE IN BACHELLOR OF EDUCATION ARTS AND SCIENCE
FIRST SEMESTER 2023/2024
[AUGUST-DECEMBER, 2023]

EDCI 332: MATHEMATICS SUBJECT METHODS

STREAM: Y3 S1

TIME: 2 HOURS

DAY: FRIDAY, 9.00 – 11.00 A.M.

DATE: 01/12/2023

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer Questions ONE and any other TWO Questions***

Question ONE

- a. Discuss mathematics as a
 - i. Language
 - ii. Science (4 marks)
- b. Explain the four broad goals of teaching mathematics in Kenya (8 marks)
- c. Discuss any three micro-teaching skills (6 marks)
- d. Discuss any three documents a teacher always prepares before teaching (6marks)
- e. Explain the four main parts of mathematics lesson plan (6marks)

Question TWO

- a. With appropriate examples of action verbs, discuss the six levels of knowledge according to the Bloom's taxonomy (12 marks)
- b. Differentiate between psychomotor and affective domains and their roles in teaching mathematics (8 marks)

Question THREE

- a. Explain **three** the individual differences in classroom in mathematics classroom (6marks)
- b. Discuss **five** resources that can be found in mathematics classroom (10marks)
- c. With appropriate examples differentiate between **inductive** and **deductive** approaches to teaching mathematics (4marks)

Question FOUR

- a. Explain the development of the mathematics curriculum before after independence (9marks)
- b. Explain the reasons for the changes in the curriculum highlighting t the specific changes in each circle (6 marks)
- c. Explain the criticisms against the modern mathematics (5 marks)