CIM 312



OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, RESEARCH AND STUDENT AFFAIRS

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION

COURSE CODE: CIM 312

COURSE TITLE: MATHEMATICS EDUCATION II

DATE: 12TH MARCH, 2021

TIME: 9.00AM-12.00NOON

INSTRUCTION TO CANDIDATES

• SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES PL

PLEASE TURN OVER

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CIM 312

CIM 312: MATHEMATICS EDUCATION II

DURATION: 3 HOURS

INSTRUCTIONS TO CANDITATES

STREAM: BED (Arts)

i. Answer Question ONE and any other Two

ii. Do not write on the question paper

Question One

- a) Outline FOUR key ideas in teaching problem solving in mathematics (4 marks)
- b) Explain THREE roles of the text book in class (3 Marks)
- c) Outline FIVE ways of improving use of chalkboard in teaching and learning of mathematics
 (5 Marks)
- d) Explain FIVE reasons for testing learners (5 Marks)
- e) Demonstrate that a number raised to zero is one (3 Marks)
- f) Demonstrate how to develop number concept using a number line (5 Marks)
- g) Explain FIVE importance of analysis and interpretation of test results of students in mathematics (5 Marks)

Question Two

a)	Discuss FIVE ways of raising mathematics literacy in Kenya	(10 Marks)

b) Explain FIVE uses of mathematical modeling (10 Marks)

Question Three

a) Explain FIVE different ways of providing resources for teaching mathematics in schools

			(5 Marks)
b)	Explain SIX Characteristics of a Good Teaching Chart		(6 marks)
c)	Explain FIVE uses of chalkboard	-	(5 marks)
d)	Explain FOUR challenges facing the future of mathematics educ	cation	(4 Marks)

Question Four

a) Discuss how ERICSSON'S MACIC formula improves the teaching of mathematics

		(10 Marks)
b)	Explain FIVE roles of a model in the class room	(5 Marks)

c) Explain FIVE qualities of a good mathematics text book

(5 Marks)

Question Five

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Prepare a 1-hour test to administer to form one term one students. It should include table of specification and marking scheme (20 Marks)