



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR**

**SCHOOL OF EDUCATION
BACHELOR OF EDUCATION**

COURSE CODE: CIM 311

**COURSE TITLE: SPECIAL METHODS IN
MATHEMATICS**

DATE: 26/04/2019

TIME: 1430 – 1630 HRS

INSTRUCTIONS TO CANDIDATES

Answer question ONE and any other TWO questions

QUESTION ONE

- (a) What considerations do you take into account when choosing a teaching method in mathematics instruction? **(5 Marks)**
- (b) "Mathematics education is an important component in the overall development of all the youth in this country". Justify this statement. **(10Marks)**
- (c) Critically examine five (5) effects of "textbook teaching". **(5 Marks)**
- (d) Examine the evolution of secondary school mathematics since 1963. **(10 Marks)**

QUESTION 2

- (a) Discuss the five (5) reasons why mathematics should be taught to all the youth of this country. **(10 Marks)**
- (b) Identify and discuss five (5) factors which you could consider when developing a quality scheme of work. **(10 Marks)**

QUESTION 3

- (a) (i) What is supervised practice? **(1 Marks)**
(ii) Explain the advantages of using supervised practice in the teaching and learning of mathematics. **(3 Marks)**
- (b) Examine the characteristics of instructional objective **(10 Marks)**
- (c) Objectives may be classified according to the primary learning outcomes that take place, typically into domains or categories. Explain the three categories. **(7 Marks)**

QUESTION FOUR

(20 Marks)

- (a) Explain the rationale for the introduction of calculator use at secondary school level of education in Kenya. **(2 Marks)**
- (b) Discuss the two broad categories of methods of instruction in mathematics. **(8 Marks)**
- (c) Suggested areas that may require a practical approach in secondary school mathematics. **(4 Marks)**
- (d) Discuss the use of mathematics textbook in a mathematics classroom. **(6 Marks)**

QUESTION FIVE

(20)

- (a) What challenges do students face when using calculators in solving mathematical problems? **(3 Marks)**
- (b) i) What is "Textbook Teaching"? **(2 Marks)**
ii) Critically examine five (5) effects of "textbook teaching". **(5 Marks)**
- (c) Examine any five (5) emerging issues in mathematics education **(10 Marks)**

END
