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. (1**0Marks)**

(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)**

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