MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER

SCHOOL OF EDUCATION
BACHELOR OF EDUCATION

COURSE CODE: ECI 3116
COURSE TITLE: METHODS OF TEACHING MATHEMATICS

DATE: 13TH DECEMBER, 2019   TIME: 1100 – 1300HRS

INSTRUCTIONS TO CANDIDATES

Answer Question **ONE** and any other **TWO** questions

Question one (30mks)

1) a) State four reasons why a lesson plan is essential in mathematics
(4mks)

   b) Outline any four reasons that lead to the abolition of "Traditional mathematics Curriculum" in Kenya. (8mks)

   c) Explain the three stages in the teaching of mathematical concepts according to Bruner. (6mks)

   d) State six behavior's used by teachers in varying the stimulus in a mathematical lesson. (6mks)

   e) Give six reasons why we teach maths. (6mks)

Question TWO (20 mks)

   a) (i) Explain Gagne's contribution in the teaching and learning of mathematics (6mks)

   (ii) State two advantages of his contribution in the teaching of mathematics (4mks)

   (iii) Describe three main components of instructions objective giving one example in each case (10mks)

Question THREE

   3 Compare and contrast the work of two psychologists Jean Piaget and Jerome Bruner as they apply to teaching and learning of mathematics. (20mks)

Question FOUR

   4 The Kenya mathematics curriculum has been changed several times since independence. Discuss any two curriculums and why they were abolished. (20mks)

Question FIVE

   5 a) Differentiate between mathematics and mathematics education. (4mks)

   b) Prepare a one week scheme of work for form 1 mathematics on the topic "linear equations" Sub topics; Simultaneous equations in one unknown simultaneous linear equations and formulation and solution of linear equations in one and two unknown from given real life situations. (8mks)

   c) Prepare a lesson plan for the sub topic "Simultaneous equations" include all aspects of an effective lesson plan. (8mks)

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