

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF  
POSTGRADUATE DIPLOMA IN EDUCATION**

**PGDE 751: METHODS OF TEACHING MATHEMATICS**

**STREAMS: PGDE**

**TIME: 3 HOURS**

**DAY/DATE: TUESDAY 03/12/2019**

**8.30 AM – 11.30 AM**

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**INSTRUCTIONS:**

**Answer Question One and any other Two**

1. (a) State five (5) goals of teaching and learning mathematics in secondary schools. [5 marks]
  - (b) Explain the importance of instructional objectives in instruction. [10 marks]
  - (c) Indicate five (5) reasons of teaching and learning mathematics in Kenya. [5 marks]
  2. Discuss the significance of teaching/learning resources in mathematics lessons. [20 marks]
  3. (a) Elaborate on factors that the mathematics teacher needs to consider when preparing scheme of work. [10 marks]
  - (b) Outline the importance of a mathematics lesson plan to the teacher. [10 marks]
  4. (a) Discuss the contributions of Jean Piaget to teaching and learning mathematics at secondary school level. [10 marks]
  - (b) Explain any two (2) teaching methods for mathematics. [10 marks]
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