

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS
EMBU CAMPUS**

EXAMINATION FOR THE AWARD OF DIPLOMA IN EDUCATION ARTS

EDCI 0318: MATHEMATICS TEACHING METHODS

STREAMS:

TIME: 2 HOURS

DAY/DATE:

INSTRUCTIONS:

- **Answer question one and any other two questions**

1. (a) State five goals of teaching mathematics in secondary schools. [5marks]
(b) Discuss two teaching methods that can be used in teaching mathematics in secondary school. [10marks]
(c) Explain five factors to consider when selecting an instructional method in teaching. [10marks]
(d) Show how you would teach the topic of indices in form two using deductive method. [5marks]
2. (a) Explain any three challenges faced by teachers of mathematics in secondary schools. [5marks]
(b) Prepare a lesson plan on how to teach selected topic in form two. [15marks]
3. (a) Prepare a table of specification for preparing a test in indices topic in form two syllabus. [6marks]
(b) From the table of specification in (a) above prepare two test items. [6marks]
(c) Prepare the suggested answers for the items in (b) above. [8marks]

4. (a) Explain the factors to consider when preparing the schemes of work. [10marks]
- (b) Discuss the contributions of Jean piaget in teaching and learning mathematics.
[10marks]
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