

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
EDUCATION (ARTS & SC)

EDCI 332: MATHEMATICS SUBJECT METHODS

STREAMS: BED (ARTS)

TIME: 2 HOURS

DAY/DATE: FRIDAY 13/04/2018

11.30 A.M - 1.30 P.M.

INSTRUCTIONS:

- Question ONE is (COMPULSORY) and any other TWO Questions.
- Do not write anything on the question paper

1. (a) Explain the following terms as they are used in mathematics subjects. [6 Marks]
 - (i) Epistemology
 - (ii) Schemes of work
 - (iii) Mathematics concepts

(b) State five qualities of a good Mathematics instructor. [5 Marks]

(c) State five general aims of teaching Mathematics. [5 Marks]

(d) Highlight on shortcomings which a teacher may experience by strict adherence to syllabus when teaching Mathematics. [4 Marks]

(e) Highlight on discovery method in teaching Mathematics with illustrations. [6 Marks]

(f) What are the uses of a chalkboard? [4 Marks]
2. (a) What should a Mathematics teacher look in a good Mathematics text book? [8 Marks]
 - (b) Discuss the ways of raising Mathematics literacy in Kenya. [5 Marks]
 - (c) Elaborate on the goals of Education in Kenya. [7 Marks]
3. (a) What are the implications of the psychological theories to learning Mathematics? [5 Marks]
 - (b) Compare Peaget's and Bruner's stages of cognitive development in respect to learning Mathematics. [15 Marks]

4. (a) Discuss characteristics of a good teaching instructional media in form of a chart. [10 Marks]

(b) KCSE syllabus do not give a teacher complete instructions on what to teach in Mathematics. Discuss these areas. [10 Marks]

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