



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

INSTITUTE OF OPEN LEARNING

EXAMINATION FOR THE DEGREE OF MASTER OF EDUCATION

EFN/M/521: LOGIC AND EDUCATION

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DATE: WEDNESDAY 2ND FEBRUARY 2011 TIME: 9.00 A.M. - 12.00 NOON

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INSTRUCTIONS

Answer question ONE and any other TWO questions.

1. a) Clarify the meaning of the following concepts as used in logic.
 - i) Logic
 - ii) Argument
 - iii) Validity
 - iv) Syllogism
 - v) Fallacy
 - vi) Categorical proposition
 - vii) Enthymeme
 - viii) Soundness
 - ix) Ambiguity

- b) “It is not satisfactory to characterize deductive arguments as those in which particular conclusions are inferred from general premises; nor is it satisfactory to characterize inductive arguments as those in which general conclusions are inferred from particular premises”. Demonstrate the truth of this statement using appropriate counter examples. (30 marks)

2. Articulate the role of logic in the promotion of critical judgment and effective communication. (20 marks)
3. Using relevant examples show how fallacies hinder effective teaching and learning. (20 marks)
4.
 - a) What factors undermine reasoning among staff and students in your school?
 - b) Explain the benefit of developing reasoning skills among both staff and students. (20 marks)
5. Using different kinds of definition show how definitions work in avoiding or correcting mistakes in reasoning . (20 marks)