



KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

**2021/2022 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER**

MAIN EXAMINATION

**FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN
KISWAHILI STUDIES**

COURSE CODE: SWA 923I

COURSE TITLE: RESEARCH IN COMPUTATIONAL LINGUISTICS

DATE: 27/05/2022

TIME: 2:00PM-5:00PM

INSTRUCTIONS

Answer three questions only.

Duration: Three Hours (3)

KIBU observes ZERO tolerance to examinations cheating

Questions

Question One

Linguistics is the science about natural language. It covers a whole set of different related sciences. Pure linguistics and applied linguistics are two sub disciplines of linguistics that directly and indirectly affect computational linguistics. Discuss (20mks)

Question Two

Computational methods can serve the goals of analysis and theory development in linguistics and encourage research involved in emerging infrastructure for linguistics. Discuss the linguistic factors that affect natural language processing. (20mks)

Question Three

Natural language processing (NLP) can be defined as automatic or semi-automatic processing of human language. Assess the major techniques and methods of natural language processing. (20mks)

Question Four

Explain with examples the various applications of natural language processing to a practicing linguist. (20mks)

Question Five

Artificial intelligence (AI) is the theory and development of computer systems able to perform tasks normally requiring human intelligence such as visual perception speech recognition, decision making and translation between languages. Do you think AI has a future for linguistics? (20mks)