

# **MACHAKOS UNIVERSITY**

## University Examinations for 2019/2020 Academic Year

## SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

## DEPARTMENT OF SOCIAL SCIENCES

## FIRST YEAR SECOND SEMESTER EXAMINATION FOR

# BACHELOR OF SCIENCE (ELECTRICAL AND ELECTRONICS ENGINEERING)

# **BACHELOR OF SCIENCE (MECHANICAL ENGINEERING)**

## **BACHELOR OF SCIENCE (CIVIL ENGINEERING)**

## UCU 103: CRITICAL AND CREATIVE THINKING

## DATE:

TIME:

## **INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS**

## QUESTION ONE (30 MARKS) (COMPULSORY)

a)	Explain the following in detail;		(10 marks)
	i.	Reason assessment component	
	ii.	Critical attitude or spirit component	
b)	What is the meaning of FRISCO?		(10 marks)
c)	Elaborate critical thinking account as critical inquiry (		(10 marks)

## **QUESTION TWO (20 MARKS)**

Discuss Harvey Siegel's perspective regarding critical thinking and science education

## **QUESTION THREE (20 MARKS)**

Discuss Paul Feyerabend notion of "farewell to reason"

## **QUESTION FOUR (20 MARKS)**

"Historically science has been seen as apex of critical thinking influenced by philosophy." Using examples of key philosophers of science substantiate this claim

## **QUESTION FIVE (20 MARKS)**

Basing yourself on Harvey Siegel, demonstrate the relevance of critical thinking either in democracy or religion or education