

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: 7/12/2020 TIME: 8:30 – 10:30 AM

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