



# MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

THIRD YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF ARTS

AHT 419/APH 410: SCIENCE & TECHNOLOGY/HISTORY AND PHILOSOPHY OF  
NATURAL SCIENCE

DATE: 9/11/2020

TIME: 8:30 – 10:30 AM

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

## QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Describe the major tenets of the traditional view of scientific method (10 marks)
- b) How can research methodologies used in Science and Technology inform the development and use of new technology? Give **five (5)** examples (20 marks)

## QUESTION TWO (20 MARKS)

According to David Hume, '*a rational person should be a total skeptic about the future.*' Discuss.

## QUESTION THREE (20 MARKS)

Outline any **five (5)** scientific discoveries of your choice and how they have changed the life of mankind.

## QUESTION FOUR (20 MARKS)

Discuss the applicability and limitation of Mill's five methods of identifying causes.

## QUESTION FIVE (20 MARKS)

Science and technology has done more harm than good. Discuss.