



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF ARTS

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

DATE: 21/10/2020

TIME: 2:00 – 4:00 PM

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) With examples, define and distinguish Science from Technology. (10 marks)
- b) Explain are the key crises that helped drive the development of Science and Technology in Society and show how they change our understanding of this field. (20 marks)

QUESTION TWO (20 MARKS)

Using concepts from Kuhn's *The Structure of Scientific Revolutions*, review the progression of Science and Technology theories in the last century.

QUESTION THREE (20 MARKS)

Discuss any five (5) inventions in Science and Technology that revolutionized life for mankind.

QUESTION FOUR (20 MARKS)

Using the demarcation problem, distinguish between science, pseudo-science, and non-science.

QUESTION FIVE (20 MARKS)

Science and Technology have done more harm than good. Discuss.