



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

DECEMBER SESSION EXAMINATION FOR BACHELOR OF EDUCATION

AHT 419: SCIENCE AND TECHNOLOGY

DATE: SCHOOL BASED

TIME:

INSTRUCTIONS:

Answer QUESTION ONE and any other TWO QUESTIONS

QUESTION ONE (30 MARKS)

- What, if anything, marks an epistemically significant difference between social and natural sciences? (10 marks)
- Should social science model itself on natural science? (10 marks)
- With examples, distinguish Science from Technology (10 marks)

QUESTION TWO (20 MARKS)

Part of Galileo's defense of his own position was an attack on alternative views. Outline a variety of reasons or arguments which Galileo could give for rejecting each of the following theories.

- The theory that heavenly bodies are perfect and unchanging
- The Ptolemaic system
- The Tyconic system

QUESTION THREE (20 MARKS)

Differentiate special theory of relativity from General Relativity.

QUESTION FOUR (20 MARKS)

Using the views of Copernicus show how the catholic church 'education' was viewed as indoctrinative

QUESTION FIVE (20 MARKS)

Critically evaluate Scientific and Technological developments in Africa in the last 50 years