



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya.  
Tel: +254 (0)799529958, +254 (0)799529959, +254 (0)712524293  
Website: [www.must.ac.ke](http://www.must.ac.ke) Email: [info@must.ac.ke](mailto:info@must.ac.ke)

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## UNIVERSITY EXAMINATIONS 2023/2024

FOURTH YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF EDUCATION ARTS

### EHI 3400: HISTORY OF SCIENCE AND TECHNOLOGY

DATE: DECEMBER 2023

TIME: 2 HOURS

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**INSTRUCTIONS:** Answer Question *One* (Compulsory) and any other *Two* Questions

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#### QUESTION ONE - (30 MARKS)

- a) Discuss the process of scientific enquiry (properties of scientific enquiry). (10 Marks)
- b) Examine the characteristic properties of technology. (10 Marks)
- c) Account for Niccolo Machiavelli (1469-1527) political philosophy in Europe during the Renaissance Period. (10 Marks)

#### QUESTION TWO – (20 MARKS)

- a) Examine Nicolaus Copernicus contribution in Astronomy. (10 Marks)
- b) Elucidate the political revolutions during the enlightenment period in Europe. (10 Marks)

**QUESTION THREE - (20 MARKS)**

- a) Account for the factors that led industrial revolution to begin in Britain and the impact of this revolution on European societies. (10 Marks)
- b) Assess the major changes realized in transport and communication in Industrial Europe. (10 Marks)

**QUESTION FOUR (20 MARKS)**

- a) Elucidate the factors which have hindered the development of science and technology in Africa since the 15<sup>th</sup> century. (10 Marks)
- b) The Theory of Evolution in its current form affects almost all areas in biology. Discuss (10 Marks)

**QUESTION FIVE – (20 MARKS)**

- a) Antoine Lavoisier Revolutionized the science of chemistry. Justify (10 Marks)
- b) Account for Rene Descartes (1596-1650) contribution to Scientific Revolution (1550-1700). (10 Marks)