



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF SCIENCE AND TECHNOLOGY EDUCATION

DEPARTMENT OF SCIENCE, MATHEMATICS AND TECHNOLOGY EDUCATION

MASTER OF SCIENCE EDUCATION DEGREE IN MATHEMATICS

TRENDS IN MATHEMATICS EDUCATION (PST 6503)

Main Examination Paper

November 2024

This Examination Paper consists of 2 printed pages

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Internal Examiner: Mr Mkwelie N
External Examiner: Dr Sunzuma G

INSTRUCTIONS

1. Candidates should answer any **FOUR** questions, being careful to number them.
2. Each question should start on a fresh page.
3. Each question carries 25 marks.

MARK ALLOCATION

QUESTION	MARKS
A1	25
A2	25
A3	25
A4	25
A5	25
TOTAL	25

- A1.** What are the benefits and challenges of integrating Indigenous Knowledge into secondary school mathematics curricula. **[25 marks]**
- A2.** Evaluate the impact of Continuous Assessment Learning Activities (CALAs) in Mathematics education in Zimbabwean Context? **[25 marks]**
- A3.** Assess the role of mathematics education organisation such as the National Council of Teachers of Mathematics (NCTM) in promoting quality school mathematics teaching and learning. **[25 marks]**
- A4.** Examine how the integration of educational technology promotes self-directed learning in a mathematics classrooms. **[25 marks]**
- A5.** Discuss how Vygotsky's sociocultural learning theory has transformed the teaching and learning of school mathematics? **[25 Marks]**

END OF QUESTION PAPER