



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF SCIENCE AND TECHNOLOGY EDUCATION

DEPARTMENT OF SCIENCE, MATHEMATICS AND TECHNOLOGY EDUCATION

PHILOSOPHICAL ISSUES IN STEM EDUCATION

PST 6101

Main Examination Paper

NOVEMBER 2024

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: PROF L SIBANDA

INSTRUCTIONS

1. Answer question **ONE** and any other **THREE** questions
2. Questions may be answered in any order
3. All questions carry [**25 MARKS**] each
4. Begin each question on a new page.

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5.	25
TOTAL	100

Question 1

Explain the following concepts in relation to the theory and practice in education.

- a. Nature of scientific knowledge [5 marks]
- b. Indigenous knowledge [5 marks]
- c. Anthropological aspect of metaphysics [5 marks]
- d. Knowledge bases [5 marks]
- e. Axiology [5 marks]

[25 marks]

Question 2

Examine the focus of education in the 21st century.

[25 marks]

Question 3

Discuss how Pragmatist Philosophy has impacted on STEM education in the Zimbabwean education system.

[25 marks]

Question 4

Assess the influence of philosophical perspectives on implementation of heritage based education in Zimbabwe.

[25 marks]

Question 5

Evaluate the objectives of studying philosophy of education.

[25 marks]

END OF EXAMINATION PAPER