



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF SCIENCE AND TECHNOLOGY EDUCATION**

**DEPARTMENT OF SCIENCE, MATHEMATICS AND  
TECHNOLOGY EDUCATION**

**STUDENT RESEARCH AND DESIGN PROJECTS**

**PTE 5111**

**Special Examination**

**April, 2019**

This examination paper consists of 2 pages

**Time Allocation: 3 hours**

**Total Marks: 100**

**Special Requirements: Nil**

**Examiner's Name: Dr Mabhena Mpofu**

**Instructions**

1. Answer question **one** and **any other three** questions from the options given below.
2. Questions may be answered in any order.
3. All questions carry **[25 MARKS]** each.
4. Begin each question on a new page.
5. Marks will be deducted for illegible hand writing

**Question 1**

Discuss the five objectives of a research proposal.

**[25 marks]**

**Question 2**

'The success of any dissertation depends on the supervisor student relationship'.  
Analyse.

**[25 marks]**

**Question 3**

Critique the use of theoretical framework in research by undergraduate students in universities.

**[25 marks]**

**Question 4**

Assess the importance of literature review to a researcher.

**[25 marks]**

**Question 5**

Discuss five challenges faced by undergraduate research supervisors in supervising students' research projects.

**[25 marks]**