

UNIVERSITY OF ESWATINI

FACULTY OF EDUCATION



DEPARTMENT OF PRIMARY EDUCATION

MAIN EXAMINATION PAPER APRIL 2021

TITLE OF PAPER: DEVELOPMENTS IN SCIENCE EDUCATION

COURSE CODE: PED 607

PROGRAMME: MASTERS IN PRIMARY EDUCATION

TIME ALLOWED: THREE (3) HOURS

INSTRUCTIONS:

1. THIS PAPER HAS **FIVE (5)** QUESTIONS
2. ANSWER ANY **FOUR (4)** QUESTIONS
3. EACH QUESTION CARRIES 25 MARKS
4. MARKS WILL BE AWARDED ON CLARITY OF THOUGHTS

This paper contains 2 pages including this cover page

**THIS PAPER MUST NOT BE OPEN UNTIL PERMISSION HAS BEEN
GRANTED BY THE INVIGILATOR**

QUESTION 1

Give an account of the key eras in the historical development of Science education since SPUTNIK. Include specific examples of types of curricula or teaching approaches involved.

[5 x 5 = 25 Marks]

QUESTION 2

Theories of learning have impacted the way we understand teaching and learning. Discuss in five (5) points your understanding of constructivism as advocated by the Social Development Theory (SDT) by Lev Vygotsky (1896-1934).

[5 x 5 = 25 Marks]

QUESTION 3

Discuss the Montessori approach to learning and its influence to the current teaching of Science in the schools. In your discussion, identify five (5) key points on the approach.

[5 x 5 = 25 Marks]

QUESTION 4

Eswatini is using a phased-in new curriculum framework; Competency-Based Curriculum (CBE) that is currently in Grade 3. In five (5) ways compare CBE with the phased-out Outcome-Based Curriculum (OBE) educational standards.

[5 x 5 = 25 Marks]

QUESTION 5

Reflect in five (5) ways in which technology has influenced the development of Science Education in Eswatini?

[5 x 5 = 25 Marks]