

UNIVERSITY OF ESWATINI
FACULTY OF EDUCATION
DEPARTMENT OF PRIMARY EDUCATION
MAIN EXAMINATION PAPER MAY 2020

TITLE OF PAPER: SCIENCE TECHNOLOGY AND SOCIETY

COURSE CODE: PED 610

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

Due to curriculum over load of the primary school curriculum, the government of Eswatini has adopted the integration approach of emerging issues into the curriculum in use. In **five (5)** ways, reflect completely about the concept of “integration” in the primary school curriculum.

[5 x 5 = 25 marks]

QUESTION 2

a) Write short notes about each of the following terms from Science, Technology and Society (STS) approach: [3 x 5 = 15 marks]

- (i) Science
- (ii) Technology
- (iii) Society

b) (i) Come up with a conceptual model that demonstrate the relationship between STS and STEM subjects.[5marks]

(ii) Briefly describe a conceptual model that you will have come up with. [5 marks]
[25 marks]

QUESTION 3

Van de Akker (2014) presents an Educational Quality Framework (based in the curriculum spider’s web). In the context of STS; discuss any **five (5)** curriculum concepts, demonstrating how STS approaches are used to enhance quality teaching and learning. Use relevant examples to illustrate your answers where applicable. [5 x 5 = 25 marks]

QUESTION 4

You have been invited as a resource person to make a presentation in a trainer’s workshop for teachers about the environmental issues and STS. Identify **five (5)** issues that have to do with STS and discuss strategies for mitigating the environmental issues. [5 x 5 = 25 marks]

QUESTION 5

Indigenous Knowledge System (IKS) is considered to deal with Science in Society. With the aid of suitable examples, in **five (5)** ways describe IKS, comparing and contrasting it with school Science knowledge. [5 x 5 = 25 marks]