

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER MAY 2015: BED III PRIMARY

COURSE NUMBER: PEC 377

COURSE NAME: CURRICULUM STUDIES: SCIENCE

TIME ALLOWED: 3 HOURS

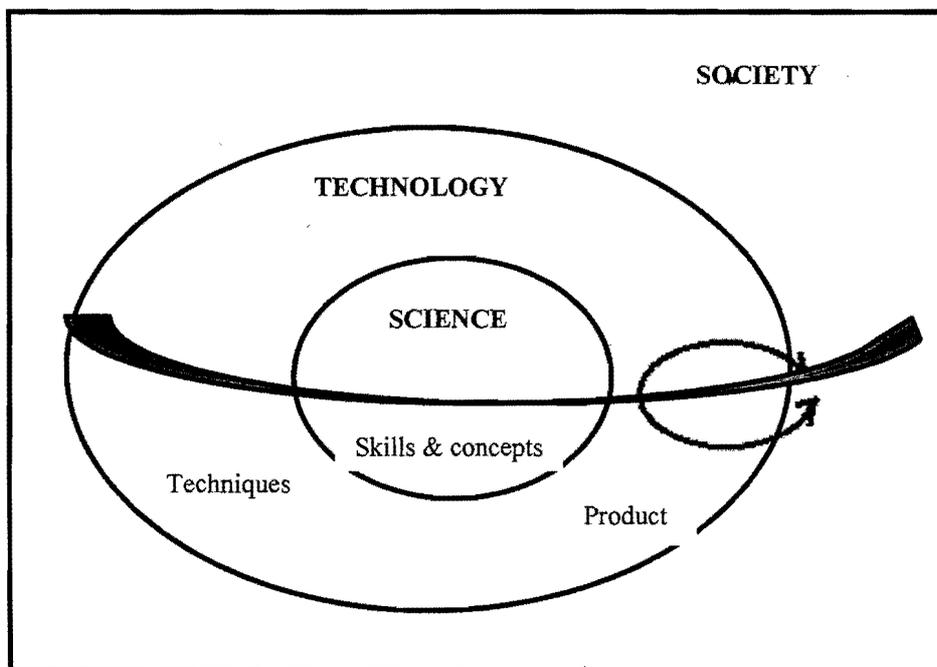
- INSTRUCTIONS:
1. THIS PAPER HAS SIX QUESTIONS.
 2. ANSWER ANY **FOUR** QUESTIONS.
 3. EACH QUESTION IS WORTH 25 MARKS
 4. DOCUMENTS REFERRED TO IN SOME OF THE QUESTIONS ARE ATTACHED. IF YOU DO NOT FIND THEM, ASK FOR THEM.
 5. ANY PIECE OF WRITTEN WORK WHICH IS NOT FOR MARKING PURPOSES MUST BE CROSSED OUT CLEARLY.

THIS PAPER MUST NOT BE OPENED UNTIL PERMISSION IS GIVEN BY THE
INVIGILATOR

Answer any **four** questions from this paper.

Question 1

- a) How is the contextualised programme in Swaziland implemented in relation to the levels of implementation of a Science, Technology and Society (STS) programme? (15)
- b) Study the following figure below and then show your understanding by describing the sequence in which science teaching should view STS. (10)



Total

25 Marks

Question 2

The environment is the greatest teaching resource for science ...

- a) Discuss (15)
- b) Briefly outline the use of human and the computer in science teaching. (10)

Total

25 Marks

Question 3

- a) What do you understand by the following: (15)
- i. Argumentation
 - ii. Postmodernism
 - iii. Social constructivism
- b) Your theory of learning affects the way you teach. Discuss. (10)

Total

25 Marks

Question 4

... Planning is essential for any educational practice.

- a. Discuss the importance of planning a scheme of work in teaching. (15)
- b. What are:
- (i) Drivers of curriculum change
 - (ii) Reasons for resisting curriculum change? (10)

Total

25 Marks

Question 5

- a) Identify **five** examples of misconceptions in science showing how they may arise. (15)
- b) Supposing a class of student hold the misconception that *anything that moves is living*. Suggest how you would deal with this misconception in your class. Your answer should show your understanding of the principles involved in dealing with misconceptions and conceptual change teaching. (10)

Total

25 Marks

Question 6

- a) Describe **three** types of resources you would use for teaching the topic 'habitats' to a grade 5 class. (15)
- b) How would you assess the topic if you decide against using a test? (10)