

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER May 2008: BED II PRIMARY

COURSE NUMBER: PEC 276

COURSE NAME: CURRICULUM STUDIES: MATHEMATICS

TIME ALLOWED: 3 HOURS

- INSTRUCTIONS:
1. THIS PAPER HAS FIVE QUESTIONS.
 2. ANSWER ANY **THREE** QUESTIONS.
 3. DOCUMENTS REFERRED TO IN SOME OF THE QUESTIONS ARE ATTACHED. IF YOU CAN'T FIND THEM ASK FOR THEM.
 4. ANY PIECE OF MATERIAL WHICH IS NOT FOR MARKING PURPOSES MUST BE CROSSED OUT CLEARLY.

SPECIAL REQUIREMENTS: NCC MATHEMATICS BOOK

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

Answer any **three** questions from the following

Question 1

- a. Give a brief account of what you understand by two of the following:
 - i. Discovery learning
 - ii. Problem solving
 - iii. Contextualisation in mathematics teaching
- b. Indicate how you would use one of these approaches to teach a mathematics lesson of your choice.

Question 2

A constructivist and behaviourist view learning and the learner differently. Give a detailed description of each view indicating their approach to teaching and assessment. (34)

Question 3

The following are used as strategies for teaching mathematics:

- i. Socratic questioning
- ii. The number square
- iii. Mathematics laboratory

Give an out line describing each approach indicating their value, indicating areas in mathematics teaching where each would be most appropriate. (34)

Question 4

Children often have difficulty learning about time and space even though they can tell the time from their watches correctly. Describe the nature and reason for children difficulty in learning these concepts. (34)

Question 5

Design a contextualised work card for young children to help them develop the concept of number. (15)

Write two questions you would ask to help indicate that the concept has been developed. (20)