

UNIVERSITY OF ESWATINI
FACULTY OF EDUCATION
DEPARTMENT OF PRIMARY EDUCATION
FINAL EXAMINATION PAPER
MAY 2019

Title of paper : CURRICULUM STUDIES (PRIMARY MATHEMATICS II)

Course number : PED 376

Time allowed : 3 HOURS

INSTRUCTIONS:

1. THIS PAPER HAS **FIVE (5)** QUESTIONS IN TWO SECTIONS
2. ANSWER **QUESTION ONE (1)** (COMPULSORY), AND CHOOSE OTHER **THREE (3)** QUESTIONS FROM SECTION B
3. MARKS FOR EACH QUESTION OR SUB-QUESTION ARE INDICATED AT THE END OF THE QUESTION
4. EACH QUESTION CARRIES 25 MARKS

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

SECTION A

QUESTION 1 – (COMPULSORY)

Instruction: All candidates are expected to answer this question

Study the following calculations in Mathematics

(i) $21.05 + 4221 = 63.26$
(ii) $120 + 21 = 0.175$
(iii) $\frac{1}{4} + \frac{1}{3} = \frac{2}{7}$
(iv) $\frac{3}{4} \div \frac{1}{2} = \frac{3}{2} = 1\frac{1}{2}$

- a) Using your own understanding, define the following terms:
- (i) Misconception. (2)
 - (ii) An error. (2)
- b) Classify the above calculations into the two (2) categories of misconceptions and errors (4)
- c) Amongst the misconceptions, identify and discuss the **type(s)** of the misconception(s) associated with the calculations. (5)
- d) Identify means which can be used by the teacher to rectify those identified causes of misconceptions in the classroom. (3)
- e) Explain any **three (3)** causes of the misconceptions in Mathematics. (9)
- (25 marks)**

SECTION B

Instruction: Answer any **three (3)** questions from this section

QUESTION 2

Using **five (5)** points differentiate between school knowledge and everyday knowledge. Use relevant examples to discuss the differences. (5x5)

(25 marks)

QUESTION 3

Choose a topic in the Primary Mathematics syllabus and write the following aspects of a lesson plan:

- a) Two (2) objectives; one from the lower and the other from the higher level of Bloom's taxonomy. (10)
- b) An introduction that has all the **four (4)** key steps. (8)
- c) Your first step of the presentation. (7)

(25 marks)

QUESTION 4

In the lower primary, the language policy encourages Mathematics teachers to use Siswati (mother tongue) in the teaching and learning.

- a) Discuss **five (5)** issues relating to the language policy in Eswatini. (10)
- b) Discuss any **three (3)** roles of language in the development of misconceptions. Use classroom examples to illustrate your arguments. (15)

(25 marks)

QUESTION 5

Suppose you are observing Mathematics classes and you realise that Teacher A uses the constructivist theory while Teacher B uses the behaviourist theory. Describe **five (5)** key characteristics associated with the teaching and learning in each of the observed lessons.

(5x5)

(25 marks)