SNATIONAL UNIVERISTY OF LESOTHO

B. ED. (PRIMARY) EXAMINATIONS

BEP 217: CURRICULUM STUDIES IN PRIMARY MATHEMATICS

JULY 2023 **MARKS: 100** **TIME: 3 HOURS**

INSTRUCTIONS:

1. THIS PAPER CONSISTS OF FIVE (5) QUESTIONS.
2. EACH QUESTION CARRIES **25 MARKS.**
3. ANSWER **ONLY FOUR** QUESTIONS.
4. USE THE SPACES PROVIDED ON THIS QUESTION PAPER FOR ANSWERING THE QUESTIONS.

STUDENT NUMBER: _____

Number of pages **8**

DO NOT OPEN THIS PAGE UNTIL YOU HAVE BEEN TOLD TO DO SO BY THE EXAMINATION'S OFFICER.

QUESTION 1

a) From which learning area does Mathematics appear from Lesotho's primary integrated curriculum?

_____ [1]

b) Define Primary school curriculum.

_____
_____
_____
_____ [3]

c) From Lesotho's primary integrated curriculum, mention five learning areas.

_____
_____
_____
_____
_____ [5]

d) What are the four key elements of curriculum from Scotland model of curriculum?

_____
_____
_____
_____ [4]

e) One of the implications of curriculum for teaching is *'children prefer different learning styles, have different areas of interest and have different aspirations.'* Elaborate this statement.

_____
_____
_____
_____
_____
_____[3]

f) Mention three challenges of incorporating history of mathematics in curriculum of today's education.

_____
_____
_____[3]

g) Mention and describe three elements of necessary Mathematics.

_____
_____
_____
_____

_____
_____
_____
_____
_____ [6]

TOTAL MARKS = 25

QUESTION 2

a) Give five reasons that support importance of Oral Mathematics.
_____
_____
_____
_____
_____
_____ [6]

b) Mention four teacher's activities during Oral Mathematics
_____
_____
_____
_____
_____
_____ [4]

c) Mention five elements that teacher's strategies rely upon for child centred approach.
_____
_____
_____
_____
_____ [5]

d) According to Curriculum and Assessment Policy of Lesotho, the teaching and learning processes should be through learner-centered approaches. Piaget and Vygotsky support the child centered learning. Discussions, Problem solving and investigation, and practice of fundamental skills and routines are some of the strategies that teachers may use to create child centered classroom. Basing yourself upon the frameworks of the above mentioned theorists, elaborate on the usefulness of these strategies;

1. Problem solving and investigation.
2. Practice of fundamental skills and routines.

_____
_____
_____

[10]

TOTAL MARKS = 25

QUESTION 3

a) Using any of the following fractions $\frac{3}{1}, \frac{2}{3}, 2\frac{1}{4}$. Set 5 marks test for grade 7 on the division of fractions, on the third level of Bloom's taxonomy (application questions). Design the marking rubric where a criterion is *5 marks* and standards are *advanced, proficiency, below basic, and basic.*

[10]

b) State and describe the **five** levels of the Van Hiele's model of Geometry.

1

_____ [3]

2

_____ [3]

3

_____ [3]

4

_____ [3]

5

_____ [3]

TOTAL MARKS = 25

QUESTION 4

1. State and explain any five effective ways of teaching mathematics.

[5]

2. [5]

3. [5]

4. [5]

5. [5]

TOTAL MARKS = 25

QUESTION 5

a) Provide evidence on this points how to effectively teach Number.

Multiple representations

_____
_____
_____
_____
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_____
_____
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_____
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_____
_____
_____
_____
_____ [5]

b) Describe activities that could help to develop number concept

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____ [5]

c) Draw and fully label the hierarchical concept map of fractions

[15]

TOTAL MARKS = 25