

UNIVERSITY OF FORT HARE

FPS 322E MATHEMATICS

EXAMINATIONS

November 2019

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Time: 3 hours

Subject: FPS 322E Mathematics

Marks: 100 marks

Internal Examiners

Dr P.S. Mafunda

Ms N Bambiso

External Examine

Dr T.M. Mthethwa

INSTRUCTIONS

- Please fill out your details on the exam book.
- You will be provided with reading time so read the questions carefully.
- Calculators may be used.
- Answer all the 10 questions.

This paper consists of 3 pages including the cover page

Section A

Question 1 [24]

The CAPS mathematics document for Grades R-3 content area: Patterns, Functions and Algebra under the topic geometric patterns and number patterns explains what opportunities a learner will get to do: draw a table that explain these opportunities from Grade R-3.

Question 2 [9]

Mention three different kinds of knowledge and explain them.

Question 3

There are many different levels to teaching and learning pattern skills, mention five.

[5]

Question 4

What resources will you use to teach patterns and how will you use them?

[6]

Question 5

[16]

Describe how you will go about teaching fractions to a foundation phase class so that they understand the concept thoroughly.

Question 6

[8]

What is data handling all about and why should it be included in the Mathematics curriculum?

Question 7

[10]

The CAPS mathematics document for Grades R – 3 says Learners should work through the progression in Data Handling. Give five classification of data handling and explain them.

Question 8

Children normally makes errors in fractions – give six examples of error analysis and explain the error that a child has made.

[12]

Question 9

[6]

Write the equivalent fraction using the denominator given.

A. $\frac{2}{10} = \frac{\quad}{5}$

B. $\frac{2}{8} = \frac{\quad}{24}$

C. $\frac{9}{12} = \frac{\quad}{4}$

D. $\frac{5}{15} = \frac{\quad}{3}$

E. $\frac{10}{12} = \frac{\quad}{6}$

Question 10

[4]

- A. Define what is meant by:
- A. Denominator?
 - B. Numerator?

.....THE END [100]