UNIVERSITY OF ESWATINI FACULTY OF EDUCATION MAIN EXAMINATION PAPER 2020

TITLE OF PAPER:

CURRICULUM STUDIES IN MATHEMATICS

COURSE CODE:

CTE532

PROGRAMME:

PGCE

TIME ALLOWED:

THREE (3) HOURS

INSTRUCTIONS:

ANSWER ANY FOUR QUESTIONS. EACH

QUESTION IS WORTH 25 MARKS.

This paper contains 3 pages including this one

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Que	tion	1 (1) (1)	Γ / 1
(8) Des	cribe (i) Formative assessment (ii) Summative assessment	[4]
(t) Clas	ssify each of the following purposes of testing in school mathematics into	
	native assessment or summative assessment and give reasons for your		
		sification:	[2]
		(i) Achievement	
		(ii) Diagnosis	[2]
		(iii) Prognosis	[2]
		(iv) Selection	[2]
		(v) Motivation	[2] [2]
,		(vi) Instrument of Teaching	[2]
(0		scribe three (3) formative assessment tools you could use in your teaching of	[9]
	scho	ool mathematics	r,
_		2	
	stion		
Usin	topic	22 and 30 in appendix 1 write:	[10]
(8) Fiv	e (5) formative assessment completion items for one of the topic	[IV]
71	\ 170 ₀₀₀	o (2) structured summative assessment items using both topics	[10]
()) IW	pare a marking guide for one of the items in (b)	[5]
(0) Pre	pare a marking guide for one of the fems in (o)	r. J
O	stion	. 2	
Que	Voi	u need to create an organisational plan for the mathematics department of the	
a	goh	ool where you are the HoD. Introduce the reader to the school such that he/she	is
	2011	are of the type of school, the type of learners and the qualifications of teachers	you
		re to work with.	[6]
h	Sho	ow clearly how you intend to organise the following for the effective teaching	and
U		rning of mathematics:	
(i		Teachers	[5]
	,	Learners	[5]
,	,	Teaching learning resources	[5]
(11)	Touching roaming ross with	
C	v)	Finally write a conclusion on organisation as a duty of the HoD	[4]
(.	',	<u> </u>	
Que	tion 4	4	_
Disc	iss the	e importance of learning of mathematics vocabulary in the teaching and learning	ng of
scho	ol mat	hematics. Illustrate your points with examples.	[25]
Que	tion 5		J 41
Rese	arch h	has shown that curriculum integration improves the learning of mathematics an	a the
other	subje	ects. Write an essay on how you would use this knowledge in your teaching of	[0.5]
scho	ol mat	thematics.	[25]

Appendix 1

Topic 22 Simultaneous Equations

- 22.1 Solution by graphing
- 22.2 Solution by substitution
- 22.3 Solution by elimination
- 22.4 Simultaneous equations involving quadratic equations

Topic 30 Matrices

- 30.1The order of matrices
- 30.2Addition and subtraction of matrices
- 30.3Multiplying a matrix by a scalar
- 30.4Multiplying a matrix by another matrix
- 30.5 Equal matrices
- 30.6 The identity matrix and the zero matrix
- 30.7 The determinant of a matrix
- 30.8 The inverse of a matrix
- 30.9 The matrix method for solving simultaneous equations