PEC 277 Curriculum Studies: Science Dec 2011 1of 3

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER December 2011: BED II PRIMARY

COURSE NUMBER: PEC 277

COURSE NAME: CURRICULUM STUDIES: SCIENCE

TIME ALLOWED: 3 HOURS

INSTRUCTIONS:

1.

- THIS PAPER HAS SIX QUESTIONS. QUESTION 1 IS COMPULSORY.
- 2. ANSWER QUESTION 1 AND ANY **THREE** OTHER QUESTIONS.
- 3. YOU WILL ANSWER A TOTAL OF **FOUR** QUESTIONS. EACH QUESTION IS WORTH 25 MARKS.
- 4. DOCUMENTS REFERRED TO IN SOME OF THE QUESTIONS ARE ATTACHED. IF YOU DO NOT FIND THEM, ASK FOR THEM.
- 5. ANY PIECE OF WRITTTEN WORK WHICH IS NOT FOR MARKING PURPOSES MUST BE <u>CROSSED OUT</u> CLEARLY.

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

Answer question 1 and any three other questions from this paper.

Question 1 This question is compulsory.

a. Write one example for each of the following:

	·			
	i. A product of science			
	ii. A scientific process			
	iii. A scientific attitude.	(6)		
b.	How does an objective differ from a key point?	(6)		
c.	Define the terms i) assimilation and ii) accommodation.	(4)		
d.	What is the difference between an objective question and an open ended question? (4)			
e.	e. Why is science knowledge said to be falsifiable? Illustrate your answer appropriately. (5)			
	Total	25 Marks		
Question 2				
a .	Given the current financial crisis faced by the country, parents need to carry more and more financial burden for the education of their children. They need to be convinced that all children benefit from learning science.			
	Write an argument that is aimed at convincing parents that scient in. Your argument should show how children and other people	-		

b.	Write an outline of Hurst's postulates.	(8)
	Total	25 Marks

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Question 3

- a. Teaching is like a journey in which you decide the destination, the vehicle, resources and indicators of arrival. Specify what each aspect of the journey represents in teaching. (10)
- b. Describe **three** factors or principles that affect the choice of a teaching method showing how it affects the choice made. (15)

Total 25 I	Marks
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Question 4

Question 5

- a) In a Grade IV lesson you teach about the environment.
 - i. Write **four** objectives for your lesson. Objectives should come from each of the four domains of learning and should be of high order. (8)
 - ii. Suggest an activity you would give your learners to do during this lesson. Your activity should be described in full indicating two key points you would expect them to learn from the activity. You may use the NCC materials provided. (10)
- b) Discuss the use of attainment targets and suggest one attainment target you would be aiming to develop in this topic on environment. (7)

Describe Piaget's theory of constructivism. Compare that with Vygotsky's theory of social constructivism. (25)

	Total	25 Marks	
Questi	on 6		
a)	Write a contextualised lesson for a topic in "Electric	stualised lesson for a topic in "Electricity". You may use the NCC	
	materials provided.	(10)	
b)	Write three questions and their marking guide for the	he lesson in a) above. Questions	

b) Write three questions and their marking guide for the lesson in a) above. Questions should of higher order demand. (15)

Total

25 Marks

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