

UNIVERSITY OF ESWATINI

FINAL EXAMINATION PAPER December 2018: BED III PRIMARY

COURSE NUMBER: PED377

COURSE NAME: CURRICULUM STUDIES: SCIENCE

TIME ALLOWED: 3 HOURS

- INSTRUCTIONS:
1. THIS PAPER HAS SIX QUESTIONS.
 2. ANSWER ANY **FOUR** QUESTIONS.
 3. 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 WRITTEN WORK WHICH IS NOT FOR MARKING PURPOSES MUST BE CROSSED OUT CLEARLY.

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

Answer any **four** questions from this paper.

Question 1

The traditional view of science is that scientific knowledge is neutral and independent from human factors. Meanwhile Science Technology and Society (STS) education claims that science cannot be neutral and should be taught within the human context.

- a) Discuss this idea justifying the claims made. Your discussion should include strength and weaknesses of the STS education. (15)

- b) Given that the Swaziland primary science curriculum is contextualised and that contextualisation is an approach to implementing STS, suggest with reasons (10)
 - i. The approach of STS the curriculum has taken and
 - ii. The level of implementation used.

Total

25 Marks

Question 2

- a) Discuss the use of electronic resources in (i) teaching and (ii) learning science in Eswatini. (15)

- b) Briefly outline the factors affecting the selection of teaching resources. Use the example of written resources to illustrate your answer. (10)

Total

25 Marks

Question 3

- a. Explain how misconceptions arise. Use examples of misconceptions from Biology, Chemistry and Physics to illustrate. (14)

- b. Develop an activity the topic “living things” which is aimed at dealing with misconceptions in the topic. (11)

Total

25 Marks

Question 4

In education, *change is said to be the only constant ...* (unkown author)

- a. Discuss this statement, explaining why it is true. (15)
- b. Using examples from Eswatini, explain the effect of the hidden curriculum on the development of the learner. (10)

Total 25 Marks

Question 5

- a) Describe three models of integration and relate them to science and mathematics. (10)
- b) Using APPENDIX A, draw a scheme of work for one term, which integrates science and mathematics. (10)
- c) Outline the value of preparing a scheme of work at the beginning of the year (5)

Total 25 Marks

Question 6

- a. Construct a 10 item test for any of the topics from Appendix A above. The test should have 5 multiple choice questions, 3 matching, 1 true and false and 1 open ended question. (15)
- b. Describe the steps you should take to ensure that you give a good test. (10)

Total 25 Marks