

Uganda Martyrs University



FACULTY OF EDUCATION
BACHELOR OF EDUCATION (PRIMARY) YEAR TWO
SEMESTER ONE EXAMINATIONS, 2022/23
PHYSICAL SCIENCE EDUCATION

PAPER TWO: PRIMARY SCHOOL SCIENCE CURRICULUM DESIGN,
DEVELOPMENT AND PRACTICE

DATE: Fri 19/05/2023

Time: 2.00-5.00 PM

Instructions:

- Do not write anything on this question paper.
 - Attempt FOUR questions.
 - Begin each selected question on a new page in the answer booklet.
 - Follow instructions on this question paper and answer booklet carefully.
 - Each question carries a total of 25 marks.
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1. a. With examples, explain the term "Passive learning/Teaching"

5mks

b. Discuss five (5) demerits of Passive Teaching/Learning methods during teaching /learning primary science.

10mks

c. Suggest five (5) ways of overcoming passive teaching/Learning of science in our primary schools

10mks

2. a. Explain the following:

i. Gender

ii. Science Policy

iii. Curriculum development

10mks

b. "The principle of integrating girl children or women in all phases of science Education in Uganda and elsewhere in the world is just beginning to become more acceptable now-days than ever before".

i. Identify and,

ii. Explain circumstances that are hindering girl child/women involvement in wholesome science Education and training. **15mks**

3. The Science Technology and Innovations (S T I) policy (2009) aims at promoting active participation of all women and men, youth, children, the elderly, and other disadvantaged or special needs groups in science and technology development.

a. Explain five (5) factors that constrain the achievement of the above stated prime objective. **15mks**

b. State what government should do to overcome the constraining factors in (i) above. **10mks**

4. A reward is often given as an appreciation and promotes positive behaviors while a punishment is awarded in dissatisfaction and its aim is to discourage negative behaviour

a. Describe **two** scenarios that attract rewarding and **three** others that can attract punishment in science teaching and learning. **15mks**

b. Discuss **five** factors that have led to continued misconduct in schools. **10mks**

5. Explain the meaning of the following;

a. science process skills

b. Scientific attitudes

10mks

c. Explain how you would help a learner of primary science develop any three science process skills and any two scientific attitudes. **15mks**

6. a. Explain the term *integrated teaching* in science

4mks

b. i. Give reasons why science should continue to be taught in an integrated manner in the primary schools. **15mks**

ii. State three ways of overcoming the factors that constrain the teaching of science in an integrated manner. **6mks**

6. a. Discuss the main elements of the primary school science curriculum in Uganda **15mks**

b. Explain the main factors that affect the successful implementation of the primary science curriculum in our primary schools **10mks**

7. a. Explain the term *language* **5mks**

b. Discuss the merits and demerits of teaching science using English **20 mks**

8. a. Define the term "Micro-teaching" **2mks**

b. Outline the steps taken in executing a successful microteaching strategy **13mks**

c. Critically examine the importance of microteaching as an innovation in our education system **10mks**

END