

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DIPLOMA IN POSTGRADUATE  
EDUCATION

PGDE 752: PHYSICS SUBJECT METHODS

STREAMS: PGDE (PART/TIME)

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 09/04/2025

11.30 A.M. – 4.30 P.M.

**INSTRUCTIONS**

- Answer question ONE and any other TWO questions
- Do not write anything on this question paper

**QUESTION ONE. (30 MARKS)**

- Discuss five reasons why a teacher should use a teaching aid while teaching physics. (10 marks)
- Discuss five aspects the teacher should adhere to in order to carry out an effective demonstration. (10 marks)
- Explain why it is important for teachers to prepare a lesson plan

**QUESTION TWO. (15 MARKS)**

- Explain the factors that guide physics teachers in selection of appropriate teaching methods to enhance learning process in physics. (10 marks)
- Discuss five accidents that can occur in a physics laboratory while in for a practical lesson. (5 marks)

**QUESTION THREE. (15 MARKS)**

- Prepare a one-week scheme of work on the topic pressure (10 marks)
- Elaborate on the five functions of a scheme of work in the process of instruction in physics. (5 marks)

**QUESTION FOUR. (15 MARKS)**

- a) Discuss the stages that are adhered to while preparing a physics lesson plan in a logical manner. (10 marks)
- b) Explain five benefits of micro teaching to a teacher trainee in physics. (5 marks)

**QUESTION FOUR. (15 MARKS)**

- a) Describe the objectives of teaching physics in secondary school in Kenya. (10 marks)
  - b) Prepare a single lesson plan on the topic pressure (5 marks)
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