

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF POSTGRADUATE DIPLOMA IN
EDUCATION**

PGDE 753: METHODS OF TEACHING CHEMISTRY

STREAMS: PGDE (PART TIME)

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 06/10/2021

2.30 P.M – 5.30 P.M.

INSTRUCTIONS:

- **Answer any three questions.**
- **Do not write anything on this paper.**

1. (a) Discuss the importance of writing instructional objects in the teaching of chemistry. (10 marks)

(b) A teacher should use effective methods during teaching. Describe five characteristics of effective methods of teaching chemistry. (10 marks)
2. (a) Explain five benefits of using practical work in the teaching of chemistry. (10 marks)

(b) Using specific examples from the teaching of chemistry at secondary school level justify a teacher's choice of use of teacher demonstration instead of class experiment in teaching chemistry lesson. (10 marks)
3. (a) Describe five ways in which a chemistry teacher can improve learner's attention and motivation in class. (10 marks)

(b) Explain why short answer questions are more commonly used than essay questions in chemistry achievement tests. (10 marks)

4. (a) Describe any five safety equipment found in the laboratory and explain the use of each. (10 marks)

(b) Explain the key design characteristics that one should consider when designing a chemistry laboratory. (10 marks)
