

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF POSTGRADUATE DIPLOMA IN EDUCATION

PGDE 752: METHODS OF TEACHING PHYSICS

STREAMS: PGDE Y1S2 SB

TIME: 3 HOURS

DAY/DATE: THURSDAY 12/04/2018

2.30 P.M. – 5.30 P.M.

INSTRUCTIONS:

- **This paper consists of five questions.**
- **Questions one is compulsory.**
- **Answer any other three questions.**

- Q1. (a) Explain the following terms as used in the teaching of physics. Give examples
(i) Scientific skill
(ii) Scientific attitude
(iii) Syllabus review
(iv) Collaboration
(v) Improvisation (10 marks)
- (b) Describe important steps in the scientific method in problem solving. (8 marks)
- (c) Explain three qualities of a good physics test. (6 marks)
- (d) Discuss three characteristics of a good lesson introduction in teaching physics. (6 marks)
- Q2. Using inductive approach outline an experiment to investigate Ohri's law. (10 marks)
- Q3. Describe how to improvise for the following apparatus
(a) Gold leaf electroscope. (5 marks)
(b) Magdeburg's spheres. (5 marks)
- Q4. Discuss the importance of science congress in teaching physics. (10 marks)
- Q5. Discuss the challenges faced by teachers during physics curriculum implementation. (10 marks)
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