

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE EDUCATION

SCIENCE & MATHEMATICS EDUCATION DEPARTMENT

BACHELOR OF SCIENCE EDUCATION HONOURS DEGREE IN PHYSICS

PHE112: HISTORY AND PHILOSOPHY OF PHYSICS

TIME: 3 HOURS

JAN 2025

INSTRUCTIONS

1. Answer any **three** questions.
2. Each question should begin on a new page.
3. Each question carries **100 marks**.

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1. Justify the teaching of 'philosophy of physics' to physics student teachers.
 2. Outline the influence of philosophical ideas of Popper in the teaching of physics at secondary school level.
 3. Discuss Lakatos' views on the status of scientific knowledge and their influence on physics education.
 4. Examine any four achievements of the Newtonian revolution and their implications on physics education.
 5. Discuss the usefulness of the philosophy of physics in solving current world economic problems in Africa.

END OF PAPER