

8BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE EDUCATION

AUG 2023

SCIENCE & MATHEMATICS EDUCATION DEPARTMENT

BACHELOR OF SCIENCE EDUCATION HONOURS DEGREE IN PHYSICS

PHE112: HISTORY AND PHILOSOPHY OF PHYSICS

TIME: 3 HOURS

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. Discuss the significance of Thomas Kuhn's ideas to the development of physics as a discipline.
 2. Examine **any three** causes of the scientific revolution.
 3. Assess **any four** arguments raised by the Positivists and Logical Positivists on the nature of scientific knowledge.
 4. Evaluate Aristotle's contribution to the development of Physics as a discipline.
 5. Discuss Lakatos' views on the status of scientific knowledge.

END OF PAPER