

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF SCIENCE EDUCATION
SCIENCE AND MATHEMATICS EDUCATION DEPARTMENT

CHE112 History and Philosophy of Chemistry

Programme: HBScEdCH (Block Release)

Duration: 3Hours

Total Marks 100

JAN 2025

Instructions to Candidates

1. Answer any 3 questions.
2. Each question should start on a fresh page.
3. Relate your answers and examples to the Zimbabwean Context.
4. Each question carries 100 marks.

1. Describe key historical milestones that have shaped the development of chemical knowledge within the realm of science?
2. In what ways have Thomas Kuhn's ideas about scientific revolutions and paradigms been applied to the study of breakthroughs and shifts in chemical research paradigms?
3. Explore the importance of science education and public awareness campaigns in fostering responsible and informed decisions regarding chemistry and technology.
4. Discuss the challenges and opportunities of integrating indigenous knowledge with modern scientific practices, particularly in the field of chemistry.
5. Compare the ethical considerations in chemistry and indigenous knowledge with regard to environmental sustainability, resource management, and the preservation of traditional practices.

End of Examination Paper