

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

AUG 2024

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. Explore how the concept of empiricism has been applied in the generation of chemical knowledge?
2. To what extent does the interplay between idealism and instrumentation shape our understanding of reality and knowledge in the fields of science, technology, and philosophy
3. Discuss the factors that have led to the reemergence of indigenous knowledge systems in recent years.
4. Explain how advancements in chemistry have shaped and continue to shape society
5. a) How does the nature of science, as a systematic and evidence-based inquiry, differ from the way indigenous knowledge systems traditionally acquire and transmit knowledge?
b) Discuss the strengths and limitations of each approach in understanding and explaining the natural world.

End of Examination Paper