



Strathmore
UNIVERSITY

SCHOOL OF HUMANITIES & SOCIAL SCIENCES

**BACHELOR OF ARTS IN DEVELOPMENT STUDIES AND
PHILOSOPHY**

**BDP 4106: PHILOSOPHY OF SCIENCE
SPECIAL EXAMINATION**

Date: 8th May 2023

Time: 10:30 – 12:30

PART I. ANSWER ALL QUESTIONS FROM THIS SECTION.

Question 1.1 (15 marks)

Explain the meaning of philosophy of science by first explaining the terms in a) and b) and then answer c).

- a) What is philosophy (5 marks)
- b) What is science (5 marks)
- c) Definition of philosophy of science (5 marks)

1. Question 1.2.

- a) What was the Renaissance? (5 marks)
- b) Give 4 characteristics of the of the scientific revolution of the Renaissance (10 marks)

PART II. ANSWER TWO QUESTIONS FROM THIS SECTIONS

Question 2 (15 marks)

Briefly explain the historical setting and the contribution of the following persons to the development of Modern Science

- i. Aristotle
- ii. Galileo Galilei
- iii. Francis Bacon

Question 3 (15 marks)

1. 'Age of Reason'; Age of Lights, Illumination or Enlightenment.
 - a) What period is this, and why has it been given this kind of names?

 - b) The following names belong to this period: Rudolf Carnap, Morris Schlick and Ernst Mach. Who are these and what do they have in common?

Question 4 (15 marks)

In his *System of Logic* John Stuart Mill proposed five methods for identifying causes, which he called the 'Methods of Experimental Inquiry'.

List out the 5 methods he proposed and in a paragraph, explain the meaning of each of them.

Question 5 (15 marks)

Explain the claims of the following scientific methods and show why or where they fall short of their claim to be the most reliable 'Scientific Methods'

- a) Principle of Empirical Verification

- b) Principle of Falsification or Fallibilism method.
