Instructions
1. Answer question one (compulsory) and any other 2 questions
2. Candidate are advised not to write on the question paper.
3. Candidates must hand in their answer booklets to the invigilator while in the examination room.
QUESTION ONE

Explain the meanings of each of the following terms

a) Science (2marks)
b) Astronomy (2marks)
c) comet (2marks)
d) Hygiene (2marks)
e) Matter (2marks)
f) Solubility (2marks)
g) Soil texture (2marks)
h) Disease (2marks)
i) Sanitation (2 marks)
j) Give two none communicable diseases (2marks)
k) State two differences between boiling and evaporation. (2marks)
l) State any two characteristics of plants (2marks)
m) Give any two biotic components of the environment (2marks)
n) Name any two constellations (2marks)
o) List down any two physical properties of soil. (2marks)

QUESTION TWO

a) List and describe any five tenets/characteristics of the nature of science (10 marks)
b) By giving examples in each case, state the two types of reasoning (4 marks)
c) List the steps involved in scientific problem solving process (3 marks)
QUESTION THREE

a) Below is a useful instrument.

i. Name the instrument. (1 mark)

ii. Which elements of weather can be measured by the instrument above? (2 marks)

b) Explain how the instrument is designed to measure the aspects named in (ii) above. (6 marks)

c) The picture below shows a weather instrument
(i) Name the instrument (1 mark)
(ii) What aspect of weather does it measure? (1Mark)
(iii) Describe how the instrument works to measure the weather element in (c ii) above (6 marks)
(iv) State two weather conditions that cannot be taught in lower Primary Classes (2 marks)
(v) State the features that make difference between the two thermometers (1 mark)

QUESTION FOUR
a) Describe the differences in characteristics between top soil and sub soil (10 marks)
b) Discuss the farming activities that encourage soil erosion. (10 marks)

QUESTION FIVE
a) By use of well labelled diagrams, explain how you can demonstrate that different liquids expand and contract at different rates. (10 marks)
b) (i) By giving reasons explain why ice floats in water. (4marks )
(ii) State and explain the uses of air pressure (6 marks)