EDUCATION-NEWS CONSULT
FINAL BECE MOCK
INTEGRATED SCIENCE 1&2
2 HRS, 10 MINS

Name: .....

Index Number: .....

EDUCATION-NEWS CONSULT, DODOWA – 0550360658

FINAL SPECIAL PERFORMANCE BOOSTER MOCK
INTEGRATED SCIENCE 2 HOURS, 10 MINS

*Do not open this booklet until you are told to do so. While you are waiting, read and observe the following instructions carefully. Write your name and index number in ink in the spaces provided above. This booklet consists of two papers; **I** and **II**. Answer Paper **2** which comes first in your answer booklet and Paper **1** on your Objective Test answer sheet. Paper **2** will last for **1** hour and 25 mins after which the answer book let will be collected. Do not start Paper until you are told to do so. Paper **1** will last 45 minutes.*

VERY IMPORTANT INSTRUCTIONS

1. *Read through the questions, brainstorm and plan your answers before you finally answer them. This is one of the good ways to manage your time in an exam and to do well.*
2. *Clearly, use simple expressions and provide the best answers possible.*
3. *Write answers that provide additional information. If you just list answers or provide one to three worded answers, your will fail the paper.*
4. *Do well to explain your answers to help earn full marks. Check your units of measurement, spellings, grammar and read over your work before submitting.*
5. *Write question numbers boldly, start every new major question (answers) on a new page.*
6. *Do not rewrite the full question before answering. Only write the question number.*
7. *Show workings in all instances in section B if the question involves calculations.*

PAPER 2 – 1 HOUR, 25 MINS

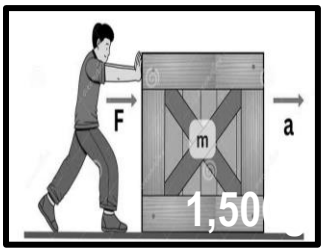
This paper is made up two sections; **Section A** and **B**. Answer **all** questions in section **A** and any other **three** questions from Section **B**.

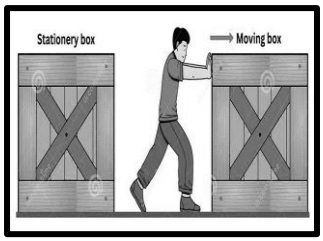
SECTION A

[40marks]

*Answer **all** questions from this section.*

1. a) The diagrams below are illustrations of Newton's Laws of Motion. Carefully study them and answer the questions which follow.





A **B** **C**

i) Identify the laws of motion illustrated in the diagrams labeled A, B and C [1.5marks]
ii) Explain each of the laws illustrated in the diagrams labelled A and B [4marks]
iii) State two applications of the law illustrated in the diagram labelled C. [2marks]
iv) What is the magnitude of the force applied in the diagram labeled A if it caused the body to move with an acceleration of $5ms^{-2}$? [2.5marks]

b) Study the diagram below and answer the questions which follow.

i) Identify the organism above. [1mark]
ii) Mention two bleeding places of the organism mentioned in (a) above. [2marks]
iii) What are the stages involved in the development of the organism?[2marks]
iv) Mention two diseases transmitted by the organism. [2marks]
v) In three sentences, how would you reduce the effects of the activities of the organism on humans? [3marks]

c) Mr. Ansah, a farmer, had his crops fertilized with two different types of fertilizers. Below are the diagrams showing the types of the fertilizers. Study it carefully and answer the questions that follow.

A **B**

i) Identify and distinguish between the types of fertilizers labelled A and B. [2marks]

Mr. Ansah always had his crops burnt whenever he applied fertilizers to these crops.

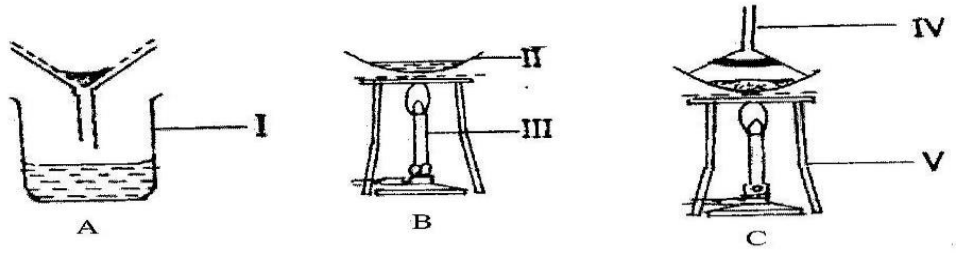
ii) What type of fertilizers is he applying to the crops? [1mark]

iii) What did Mr. Ansah do wrong when applying the fertilizer? [2mark]

iv) Mention four methods of applying the type of fertilizer labelled A [2marks]

v) Why would you recommend the fertilizer labelled B to Mr. Ansah instead of A? Give three reasons. [3marks]

d) The diagrams below are different laboratory set-ups used in the separation of mixtures. Study the diagrams carefully and answer the questions that follow



(i) Name each of the parts labeled I, II, III, IV and V. [5marks]

(ii) Name the separation method represented by each diagram. [3marks]

(iii) Which of the set-ups is used to obtain clear water from muddy water? [1mark]

(iv) Which of the set-ups is used to obtain salt from salt solution? [1mark]