

BECE INTEGRATED SCIENCE 2014

QUESTIONS AND ANSWERS (PAPER 2) PREVIEW

For better viewing and navigation of this document we recommend the following PDF-readers:

1. [Adobe Acrobat Reader](#)
2. [WPS Office + PDF](#)

© 2021 [Ghana5.com](#). All rights reserved.

ACKNOWLEDGEMENT: The West African Examination Council - for the BECE past questions used in this document.

INTEGRATED SCIENCE

PAPER 2 – ESSAY

1 1/4 HOURS

[PART 1](#)

[PART 2](#)

PART I

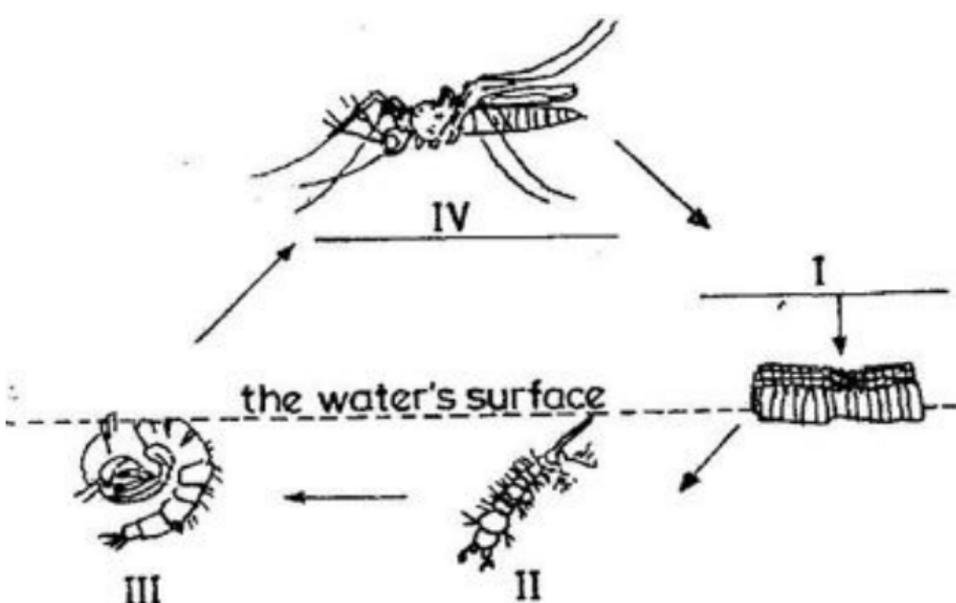
[40 marks]

Ghana5.com/becejhs

Answer Question **all** of Question 1.

- 1.**
(a) The diagrams below represent the stages in the life cycle of a mosquito

Study the diagrams carefully and answer the questions that follow.



(i) Name **each** of the stages labeled I, II, III and IV.

- I. Egg
- II. Larva
- III. Pupa
- IV. Adult / Imago

(ii) State how stage II obtains oxygen

The larva comes to the surface of the water body to obtain oxygen from the air through a structure called the siphon.

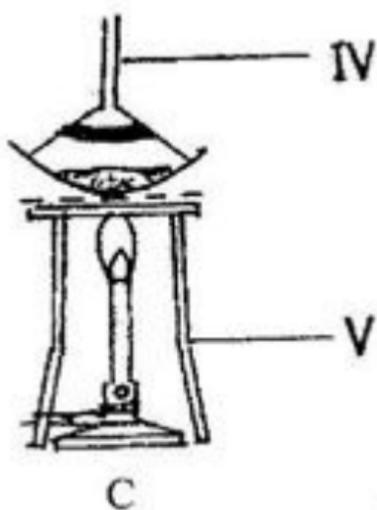
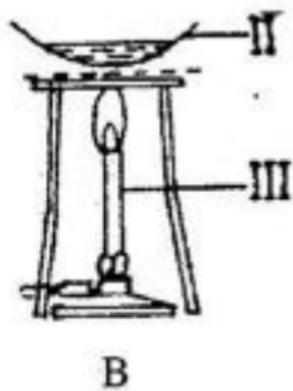
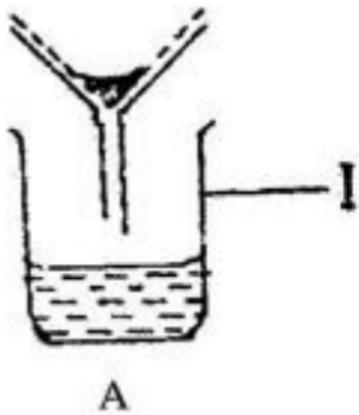
(iii) State **two** methods of controlling **each** of the stages labeled III and IV.

(...No we won't give all the answers here..)

GET THE VERSION WITH ALL THE ANSWERS HERE.

(b) The diagrams below are different laboratory set-ups used in the separation of mixtures.

Study the diagrams carefully and answer the questions that follow.

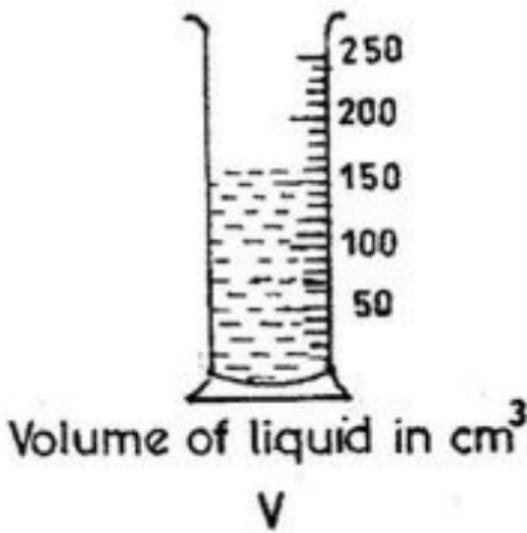
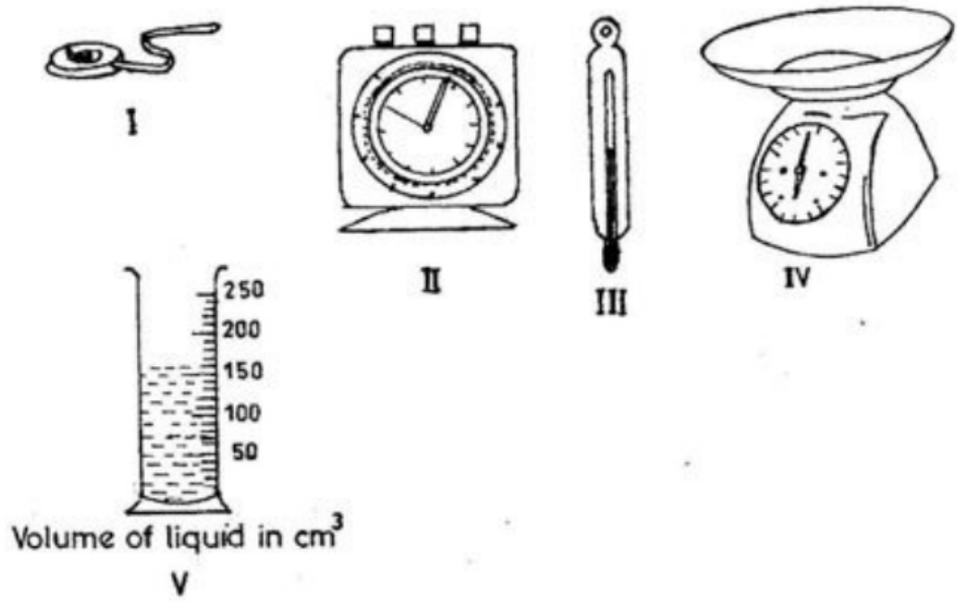


(i) Name each of the parts labeled I, II, III, IV and V.

- (ii) Name the separation method represented by **each** diagram.
- (iii) Which of the set-ups is used to obtain clear water from muddy water?
- (iv) Which of the set-ups is used to obtain salt from salt solution?

(c) The diagrams below show some instruments used in the laboratory.

Study the diagrams carefully and answer the questions that follow.

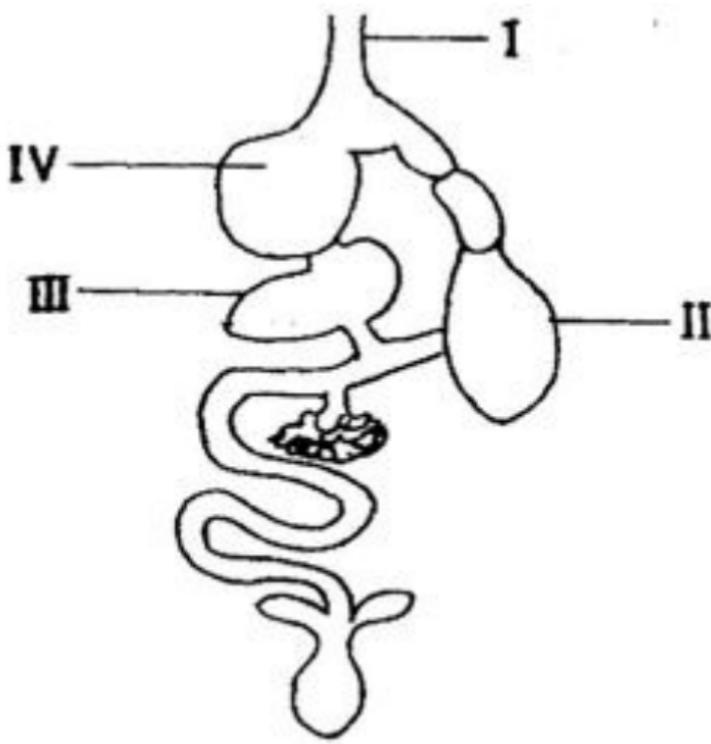


- (i) Identify **each** of the instruments labeled **I**, **II**, **III**, **IV** and **V**.
- (ii) State **one** use of **each** of the instruments labeled **I**, **II**, **III** and **IV**.
- (iii) Read and record the volume of the liquid in the instrument labeled **V**.

(d) The diagram below shows the digestive system of a class of farm animals.

Ghana5.com/becejhs

Study the diagrams carefully and answer the questions that follow.



- (i) Name **each** of the parts labeled I, II, III and IV.
- (ii) State **one** function each of the parts labeled II and IV.
- (iii) Name **two** farm animals that possess this type of digestive system.
- (iv) Mention **two** diseases which affect this class of farm animals.

bece.wordpub.org/pdf

[\[BACK TO TOP\]](#)

PART II

[60 marks]

Answer **four** questions only from this section.

2. (a) (i) Name the two elements that combine to form water.
- (ii) Write a balanced chemical equation to show how the water is formed from the named elements
- (b) State **two** ways of maintaining a balance in an ecosystem.
- (c) (i) What is a *fertile* soil?
- (ii) State **two** factors that cause loss of soil fertility.
- (d) Classify the following items as *magnetic* or *non-magnetic* substance: wood, steel blade, rubber and glass jar.

bece.wordpub.org/pdf

- 3.** (a)
- (i) What is *germination* of seed?
 - (ii) State **two** conditions necessary for the germination of seed.
- (b) State **four** methods used in identifying farm animals
- (c) Explain why it is easier to cut a piece of yam with a sharp knife than with a blunt knife
- (d) State **three** differences between a *metal* and a *non-metal*.

bece.wordpub.org/pdf

- 4.** (a)
- (i) What is *debeaking*?
 - (ii) Give two reasons why debeaking in poultry birds is important.
- (b)
- (i) A steel needle carefully placed on the surface of water floats. What type of force made the steel needle to float?
 - (ii) Name **three** substances that could be added to the water to make the steel needle to sink.
- (c)
- (i) Explain why gold is preferred to iron in the making of jewellery.
 - (ii) State **one** way of preventing rusting.
- (d)
- (i) State **two** elements of climate.
 - (ii) Name the equipment used to measure **each** of the elements stated in (i) above.

Ghana5.com/becejhs

- 5.** (a)
- (i) *What is refraction of light?*

- (ii) Sketch a diagram to show the path of a light ray when it travels from air to glass.
- (b) Explain why it is difficult to separate iron and sulphur mixture after strong heating.
- (c)
- (i) Give **two** example of digestive enzymes produced in humans.
- (ii) For **each** of the enzymes given in (i), name the part of the human body where the enzyme is produced.
- (d) List **four** methods of applying fertilizers to crops.

Ghana5.com

6. (a) Consider the substances listed below:

carbon dioxide, gold, bronze, iron, oxygen and ink.

From the list, select the substance that:

- (i) supports burning
(ii) is used as jewellery;
(iii) is used for making statues
- (b)
- (i) Name **two** diseases associated with the circulatory system of humans.
- (ii) State **one** way of preventing **each** of the diseases named in (i)
- (c) Give two examples of **each** of:
(i) **major** plant nutrients;
(ii) **minor** plant nutrients.
- (d)
- (i) State **two** properties of a good thermometric liquid.
- (ii) Give **two** examples of a good thermometric liquid..

END OF PAPER

**GET THE VERSION WITH ALL
THE ANSWERS HERE.**

YOU CAN BUY THE **FULL VERSION**
(VERY REASONABLY PRICED) ONLINE
(INSTANT DOWNLOAD AFTER PAYMENT)
AT GHANA5.COM/SHOP OR AT OUR
OFFICE IN DANSOMAN (GALILEE ROAD,
EXHIBITION DOWN, NEAR DANSEC SHS)
OR CALL **0270267070** FOR DIRECTIONS.

[\[BACK TO TOP\]](#)

Published by
Ghana5.com

under license from

Word Publishers

All rights reserved

There's more at:
Ghana5.com/shop

**Jesus.. whom they
killed by hanging
on a tree. Him God
raised on the
third day..**

Acts 10: 38-40