

25. The type of landform which rises above the surrounding land in a limited area, usually in the form of a peak is called.....
A. mountains.
B. plain.
C. plateau.
D. valleys.
26. Which of the following types of power uses steam to produce electricity?
A. Wind
B. Geothermal
C. Solar
D. Hydropower
27. The chemical formular of hydrogen peroxide is.....
A. H_2O .
B. Ho_2 .
C. H_2O_3 .
D. H_2O_2 .
28. Binary compounds are made up ofelements.
A. Three
B. Four
C. Only two
D. Five elements
29. Which of these compounds have only one of each element?
A. H_2O
B. N_2O
C. $NaCl$
D. Co_2
30. Which of the following compound is commonly referred to as table salt?
A. H_2O
B. N_2O
C. Nh_4
D. $NaCl$
31. All the following are examples of element *except*
A. Na.
B. H_2O .
C. H.
D. Ar.
32. Cations are formed when an atom.....
A. gains electrons.
B. loses one or more electrons.
C. break up.
D. accept an electrons.
33. Example of cations include the following *except*
A. aluminum.
B. calcium.
C. chlorine.
D. barium.
34. Acids have a pH of.....
A. 7.5.
B. 7.8.
C. less than 7.
D. 7.7.
35. The strength of Alkali solution can be determined by using.....
A. thermometer.
B. pH scale.
C. anemometer.
D. spring balance.
36. A secondary nutrient among the following is.....
A. calcium.
B. phosphorus.
C. carbon.
D. potassium.
37. Animals that have their stomach divided into different compartments are called.....
A. poultry.
B. ruminants.
C. monogastrics.
D. birds.
38. Which of these animals have a single stomach?
A. Goats
B. Camels
C. Dogs
D. Cow
39. The final section of the digestive canal is the.....
A. stomach.
B. large intestine.
C. small intestine.
D. oesophagus
40. A straight tube that passes through the neck and throat to the stomach is the.....
A. oesophagus.
B. duodenum.
C. pancreas.
D. colon.

Mock Examination
Integrated Science
Essay and Objective
2hours

2 & 1

Name:.....
School:.....
Index No.:.....



Grade 1 Exams Center

BASIC EDUCATION CERTIFICATE EXAMINATION

MOCK EXAMINATION

BS 9

Mock 1

INTEGRATED SCIENCE 2 & 1

1 hour 45minutes

*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, School and Index Number in the spaces provided above.*

*This booklet consists of **two** parts, **Paper 2** and **Paper 1**. Answer Paper 2 which comes first, in your answer booklet and Paper 1 on the Objective Test answer sheet. Paper 2 will last 1 hour 15 minutes after which the answer booklet will be collected. Do **not** start Paper 1 until you are told to do so. Paper 1 will last 45 minutes.*

PAPER 2

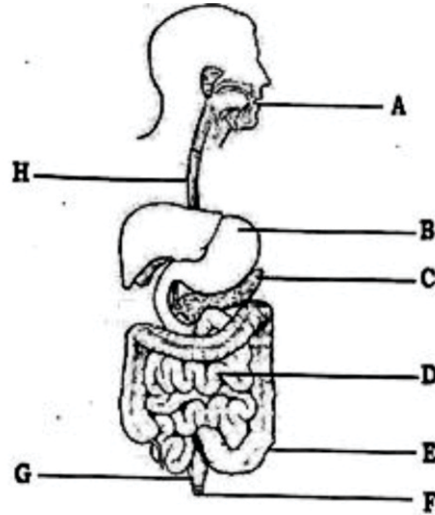
This paper is in **two** Parts: **I** and **II**. Part **I** is Compulsory and You answer any other **four** questions in Part **II**. Answer all the questions in your answer booklet. Credit will be given for clarity of expression and presentation of material.

PART I

[COMPULSORY 40 marks]

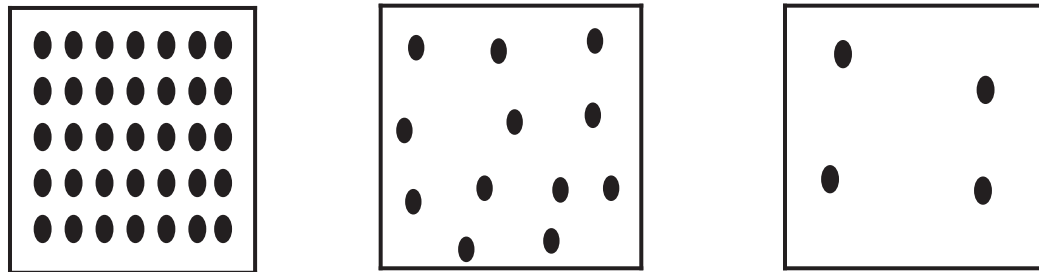
Answer all the Questions in this part

1. (a) Study the diagram below and answer the questions that follows: **10marks**



- (I) Identify the part of human body illustrated above.
(ii) Identify the parts labeled **A**, **B**, **C**, **D** and **E**.
(iii) Outline **one** function each of the parts labeled **A**, **B** and **D**.
(iv) Describe the process that occur in **B**.

- (b) The diagram below represents the arrangement of particles in the three states of matter. Use it to answer the questions below. **10 marks**



- (i) Based on the arrangement of the particles, identify each state of matter in **A**, **B** and **C**
(ii) Outline any **three** differences between **A** and **B**.
(iii) Give **two** characteristics each of **A**, **B** and **C**.
(iv) List any **two** examples each of **A**, **B** and **C**.

11. The device which is used to turn ON and OFF an equipment is called
A. battery.
B. switch.
C. diode.
D. LED.
12. An electronic device which allows current to flow in only one direction is known as.....
A. battery.
B. cell.
C. P-N junction.
D. LED.
13. Which law states that energy can neither be created nor destroyed but can be converted from one form to another?
A. Law of conservation of energy
B. Law of conversion of energy
C. Newton's second law of motion
D. Law of conduction of energy
14. The energy in an electric lamp can be changed from electric energy to
A. chemical energy.
B. heat energy.
C. sound energy.
D. kinetic energy.
15. In the.....class lever, the effort is between fulcrum and the load
A. first.
B. fourth.
C. second.
D. third.
16. The major stages of carbon cycle include the following processes *except*.....
A. photosynthesis.
B. decomposition.
C. combustion.
D. excretion.
17. The chemical equation for photosynthesis is given by.....
A. $\text{CO}_2 + \text{H}_2\text{O}$.
B. $\text{C}_6\text{H}_{12}\text{O}_6$
C. $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$.
D. $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$
18. Which part of the body of a mosquito has three segments?
A. Head
B. Thorax
C. Antennae
D. Abdomen
19. The correct order of the life cycle of mosquitoes is.....
A. egg-larvae-pupa-adult.
B. egg-pupa-larvae-adult.
C. egg-pupa-larvae-adult.
D. egg-adult-pupa-larvae.
20. How many days does it take mosquitoes to complete the larval stage?
A. 6 days
B. 5 days
C. 7 days
D. 14 days
21. Flat seed beds are suitable for the following crops *except*.....
A. maize.
B. beans.
C. potatoes.
D. carrots.
22. The fourth largest planet by diameter in the solar system is the....
A. Earth.
B. Neptune.
C. Jupiter.
D. Mercury.
23. Which of these tools is primarily used for moving light weight materials from one point of the farm to another?
A. Hand trowel
B. Shears
C. Wheelbarrow
D. Tractor
24.is a condition caused by an inflammation of the liver.
A. Hepatitis
B. Pneumonia
C. Malaria
D. Bronchitis

Answer all the questions in this section.

Each question is followed by four options lettered A to D. Find out the correct option for each question and shade in pencil on your answer sheet the answer space which bears the same letter as the option you have chosen. Give only one answer to each question. An example is given below

Anything that has weight and occupied is termed as

A. Density. /
B. substance.
C. matter.
D. Energy.

The correct answer is 'matter' which is lettered C and therefore answer space C would be shaded.

[A] [B] [C] [D]

Think carefully before you shade the answer spaces: erase completely any answer you wish to change. Do all rough work on this question paper.

1. Which of the following materials has a definite shape?
A. Water
B. Kerosene
C. Carbon dioxide
D. Wood

2. One of the characteristics of gases is that, it is.....
A. slippery.
B. hard.
C. strong.
D. highly compressible.

3. All the following are examples of gases except.....
A. carbon dioxide.
B. alcohol.
C. oxygen.
D. water vapor.

4. One way to preserve water in our homes is
A. prolong bathing.
B. washing utensil in bits.
C. rain water harvesting.
D. run more water than necessary when washing.

5. The space within a cell where the organelles are found is called.....
A. cytoplasm.
B. mitochondria.
C. vacoules.
D. ribosomes.
6. Which part of an animal cell is described as the “power house” of the cell?
A. Cytoplasm
B. Mitochondria
C. Vacoules
D. Centrioles

7. All living things are composed of ...
A. organelles.
B. cells.
C. cell membranes.
D. cell division.

8. One of the differences between plant and animal cell is the.....
A. presence of nucleus.
B. presence of ribosomes.
C. presence of cell wall.
D. presence of mitochondria.

9.is defined as the natural process where plants releases excessive water into the atmosphere in the form of water vapour.
A. Evapotranspiration
B. Transpiration
C. Condensation
D. Evaporation

10. The.....stage follows the larvae stage in the life cycle of a housefly.
A. adult
B. larva
C. egg
D. pupa

c. The diagram below shows the arrangement of the first 20 elements on the periodic table. Use it to answer the questions that follows. 10 marks

H							He
Li	Be	B	C	N	O	F	Ne
Na	Mg	Al	Si	P	S	Cl	Ar
K	Ca						

- (i) Outline any **three** elements in period 3.

(ii) List the elements known as noble gasses.

(iii) Identify any **three** non-metal elements from the periodic table.

(iv) Write down any **two group 2 elements** from the periodic table.
- d. Copy and complete the table below by grouping the animals in the brackets into ruminants and monogastics 10 marks
(Goats, Chicken, Dogs, Rabbits, Camel, Horses, Sheep, Cow, Pigs, Deer)

Ruminant	Monogastrics

- PART II**
[60MARKS]
Answer **four** questions **only** from this part

2. a. i. **Outline** any **two** examples of Alkali metals on the periodic table.
ii. State any **two** physical properties of metals. 4 marks

b. i. Define **cell**.
ii. Write down any **three** differences between *plant cell* and *animal cell*. 4 marks

c. i. List any **four** sources of water.
ii. State the stages involved in water cycle. 4 marks

d. Briefly explain the reason why water cycle is a repeated pattern. 3 marks

3. a. i. List in order, the stages of the life cycle of the housefly.
ii. State any **four** feeding sites of the housefly. **4 marks**
- b. i. Differentiate between *primary nutrients* and *secondary nutrients*.
ii. Outline any **two** examples of trace nutrients. **4 marks**
- c. State **two** breeds of each of the following animals
i. sheep ii. pig **4 marks**
- d. State any **three** ways by which domestic animals can be classified. **3 marks**
4. a. i. Differentiate between *monogastric animals* and *poultry*.
ii. List any **three** examples of poultry. **4 marks**
- b. i. Define *food*.
ii. Write down any **three** foods from animal source. **4 marks**
- c. State the end product of digestion for the following;
i. protein ii. carbohydrates **4 marks**
- d. What is *egestion*? **3 marks**
5. a. i. Describe *galaxy*.
ii. State any **three** examples of the inner planets. **4 marks**
- b. i. What is *absorption*?
ii. Write down the **three** sections of the small intestine. **4 marks**
- c. i. Outline any **two** importance of food to human health.
ii. Give any **four** foods from plant source. **4 marks**
- d. Write any **three** differences between *ruminants* and *non-ruminants*. **3 marks**
6. a. i. Describe a *terrestrial ecosystem*.
ii. State any **three** examples of terrestrial ecosystem. **4 marks**
- b. i. List any **three** animals found in arboreal ecosystem.
ii. Define *land rotation*. **4 marks**
- c. Explain the following forms of energy
i. Kinetic energy
ii. Sound energy **4 marks**
- d. State the **three** forms of heat transfer. **3 marks**

**DO NOT TURN OVER THIS PAGE UNTIL
YOU ARE TOLD TO DO SO.**

**YOU WILL BE PENALIZED SEVERELY IF YOU
ARE FOUND LOOKING AT THE NEXT PAGE
BEFORE YOU ARE TOLD TO DO SO.**

PAPER 1
OBJECTIVE TEST
GHANAIAN LANGUAGE

45 minutes

1. Use HB pencil throughout.
2. On the pre-printed answer sheet, check that the following details are correctly printed: Your **surname** followed by **other names**, the **subject name**, **index number**, **centre number** and **paper code**.
3. In the boxes marked Candidate Number, Center Number and Paper Code, reshade each of the shaded spaces.
4. An example is given below. This is for a candidate whose name is Manasseh K.E Saase-Joseph, Index Number is **024481793**. She is writing the examination at Centre Number **02448** and she is offering **Ghanaian Language** and the paper code is **3020**.

BASIC EDUCATION CERTIFICATE TERMINAL EXAMINATION
OBJECTIVE ANSWER SHEET

CANDIDATE NAME: Manasseh K.E Saase-Joseph SUBJECT NAME: Ghanaian Language

1. Use HB pencil. Press firmly.
2. Answer question by choosing one letter and then, shade through the letter chosen like this
[A] [B] [C] [D] [E]
3. If you want to change an answer, rub out your first mark completely
4. If only four alternative answers are given for each question, ignore the letter E.
5. Your question paper may have fewer than 100 questions

CANDIDATE NUMBER										CENTRE NUMBER					PAPER CODE			
0	2	4	4	8	1	7	9	3		0	2	4	4	8	3	0	2	0
[A]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[A]	[0]	[0]	[0]	[0]	[A]	[0]	[A]	[0]	[A]
[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]
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[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]

For Supervisors only.

If candidate is absent shade this space