

BECE

HOME MOCK EXAM



PREPARE
PRACTICE
PERFORM
SUCCEED!



BETTER
PREPARATION
BETTER RESULTS
BRIGHTER
FUTURE

RESULT FOCUSED. EXAMINER SET. SUCCESS GUARANTEED!



AUGUST 2026

(2027 BECE)



EXAM STYLE
QUESTIONS



EXPERIENCED
EXAMINERS



DETAILED
PERFORMANCE
REPORTS



IMPROVE
WEAK AREAS
& SCORE HIGH



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SCIENCE

SCI.



2 HOURS,
10 MINS

PAPER 2 Instructions:

This paper is made up two sections;

Section **A** and **B**.

Answer Question 1 in section **A** and
any other three questions from Section **B**.

NAME: _____

INDEX NUMBER: _____

MONTH TAKING THIS EXAM: _____ **AUGUST 2026**



PREPARE TODAY. **PERFORM** TOMORROW. **SUCCEED** FOREVER!



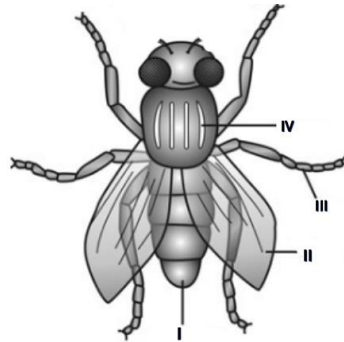
BE READY FOR **BECE SUCCESS!**

PAPER 2 - ESSAY - [100 marks]

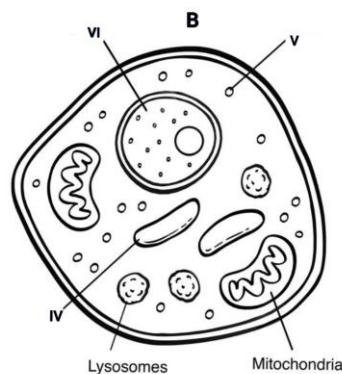
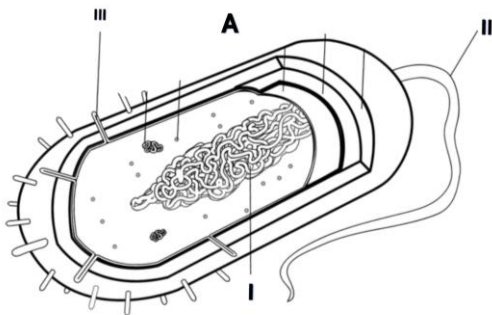
SECTION A - [40 marks]

Answer *all* questions from this section.

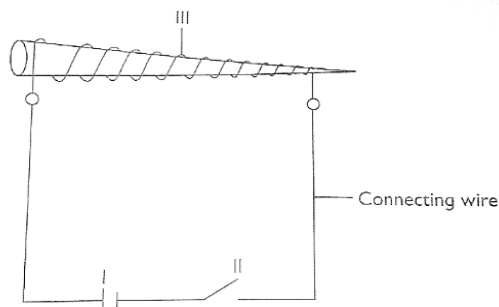
1. (a). Study the diagram of the organism below, which is considered a threat to humans, and answer the questions that follow.



- What is the name of the part labeled I, II, III, IV on the diagram? (4 marks)
 - Identify two physical control methods that can be used to reduce or eliminate this organism. (2 marks)
 - State two harmful activities of this organism that negatively affect human health or comfort. (2 marks)
 - Mention two diseases that can be transmitted or caused by this organism. (2 marks)
- (b) The diagram below shows illustrations of two cells labeled A and B. Study the diagram carefully and answer the questions that follow



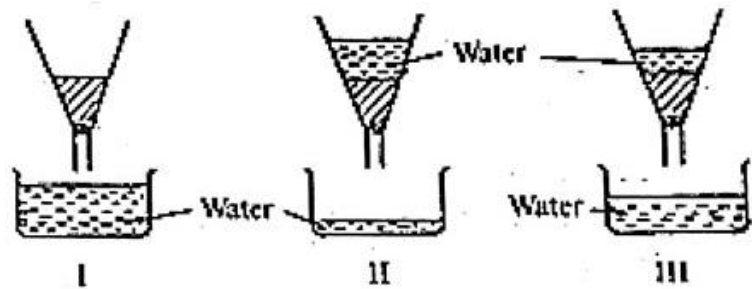
- Identify the cells labeled A and B
 - Name each of the parts labelled I, II, III, IV, V, VI
 - Tabulate two differences between cell A and B
 - State three similarities between cell A and B
- (c) The diagram below shows a method of magnetizing a nail. Study it carefully and answer the questions that follow.



- What method of magnetization is demonstrated above? (1 mark)
- List **two** substances that can be made into a magnet. (2 marks)
- State two other methods of making magnets. (4 marks)
- Name one material that is used in making an electrical wire. (1 mark)

- v. Give two properties of the material you have mentioned in (iv) which makes it useful as a wire. (2 marks)

(d) The set-up below is a demonstration by a basic 8 pupil using samples of the types of soil. Use it to answer the questions that follow.

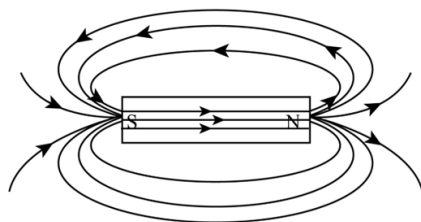


- Suggest a suitable title for the experiment above. (2 marks)
- State three observations you can make from the set-up. (3 marks)
- Explain why the levels of water are different in the set-up. (3 marks)
- What conclusion could be drawn from the results of the experiment? (2 marks)

SECTION B

Answer three questions from this section

- Differentiate between a simple machine and a complex machine by stating **three** differences. (3 marks)
 - Provide **two** examples each of a simple machine and a complex machine. (4 marks)
 - Describe briefly how sulfur can be separated from a mixture of powdered sulfur and iron filings. (5 mks)
 - What is meant by the term seed beds? (2 marks)
 - State the main types of seed beds used in crop cultivation. (3 marks)
 - Explain each **R** of the **3R** principle in sustainable waste management. (3 marks)
- An atom of element V has an atomic number of 17 and a mass number of 35.
 - How many protons, electrons, and neutrons are present in the atom? (3 marks)
 - Using a labelled diagram, show the electronic configuration of the atom. Your diagram should include the positions of the protons and electrons, and the arrangement of electrons in the respective shells. (4 marks)
 - List two human activities that interfere with the natural carbon cycle. (2 marks)
 - State two environmental effects resulting from the disruption of the carbon cycle. (2 marks)
 - Explain briefly how a capacitor stores and releases electrical energy during the processes of charging and discharging. (3 marks)
 - Identify three key differences between igneous rocks and sedimentary rocks. (3 marks)
 - Briefly explain the process by which metamorphic rocks are formed. (3 marks)
- Provide reasons for the following agricultural practices:
 - Why is Centrosema often grown in oil palm plantations? (2 marks)
 - Why is a farmland infected with witchweed usually replanted with peanut? (2 marks)
 - In the context of soil science, how does soil texture differ from soil structure? (4 marks)
 - Give two importance of soil structure. (2 marks)
 - Identify two ways in which plants and animals rely on each other for survival. (2 marks)
 - What are three disadvantages associated with organic farming? (3 marks)
 - Describe briefly the process by which electricity is produced from a dam. (3 marks)
 - What forms of energy transformation occur during the generation of hydroelectric power? (2 marks)
- What are three distinct properties of magnetic lines of force observed around a bar magnet? (3 marks)



- ii. How would you define a magnetic field in simple scientific terms? (2 marks)
- b. i. What is meant by the term "electronic configuration"? (2 marks)
- ii. List three notable characteristics of elements found in Group 7 of the periodic table. (3 marks)
- c. i. In what three physical forms can roughages be processed and provided to animals? (3 marks)
- ii. Identify two macro minerals that animals require in large amounts for proper development. (2 marks)
- d. i. Copy and complete the table below with the appropriate information. (3 marks)

Lack of	Deficiency disease
Vitamin C	
Vitamin D	
Vitamin A	

- ii. Mention two key functions of fats in the human body. (2 marks)

OBJECTIVE TEST - PAPER 1

Answer all the questions.

Each question is followed by four options lettered A to D. Find 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.

1. How many electrons are needed to fill the third energy level of an atom?

- A. 2 B. 8
C. 18 D. 32

2. Which of the following is a characteristic of a heterogeneous mixture?

- A. Evenly mixed components.
B. Visibly different components.
C. Forms a solution.
D. Contains only one phase.

3. What is the primary role of carbon in living organisms?

- A. Structural component of cells
B. Energy source
C. Waste product
D. Oxygen producer

4. In a DC electronic circuit, what is the function of LEDs?

- A. Store electrical charge B. Regulate voltage levels
C. Emit light D. Control current flow

5. Which of the following is a key aspect of exploring seed beds for planting crops in your community?

- A. Watering techniques
B. Observing different seed beds
C. Bird watching
D. Painting techniques

6. Which element has 6 protons and 6 neutrons in its nucleus?

- A. Carbon B. Oxygen
C. Nitrogen D. Hydrogen

7. Which type of cell has a more complex internal structure with specialized organelles?

- A. Prokaryotic cells B. Eukaryotic cells
C. Animal cells D. Plant cells

8. The atomic number of an element is equal to the number of

- A. protons. B. neutrons.
C. electrons. D. positrons.

9. Which method can be used to separate a mixture of sand and gravel?

- A. Filtration B. Distillation
C. Evaporation D. Magnetism

10. Which outer planet has a unique feature known as the Great Dark Spot?

- A. Jupiter B. Uranus
C. Saturn D. Neptune

11. What organelle is responsible for protein synthesis in both prokaryotic and eukaryotic cells?

- A. Golgi apparatus B. Endoplasmic reticulum
C. Mitochondria D. Ribosomes

12.The atomic number of an element is equal to the number of.....

- A. protons.
- B. neutrons.
- C. electrons.
- D. positrons.

13.Which cell type is more likely to be unicellular?

- A. Prokaryotic cell
- B. Eukaryotic cell
- C. Plant cell
- D. Animal cell

14.Which of the following is responsible for respiration to release energy for the cell?

- A. Mitochondria
- B. Vacuole
- C. Nucleus
- D. Cytoplasm

15.What type of mixture is formed when oil and water are combined?

- A. Homogeneous
- B. Heterogeneous
- C. Suspension
- D. Colloid

16.What is the term for a bond formed by sharing electrons between atoms?

- A. Covalent bond
- B. Ionic bond
- C. Metallic bond
- D. Polar bond

17.How does the anopheles mosquito impact humans?

- A. By causing crop damage.
- B. By acting as a vector for diseases.
- C. By competing for food resources.
- D. By aiding in waste decomposition.

18.What is the purpose of capacitors in relation to LEDs in electronic circuits?

- A. Regulate light intensity.
- B. Store and release electrical energy.
- C. Control voltage levels.
- D. Amplify electrical signals.

19.What method can be used to separate a mixture of ink in water?

- A. Filtration
- B. Distillation
- C. Magnetism
- D. Chromatography

20.What is the primary function of incisors in humans?

- A. Grinding food
- B. Tearing food
- C. Crushing food
- D. Holding food in place

21.Which sub-atomic particle is responsible for the stability of the nucleus?

- A. Neutron
- B. Proton
- C. Electron
- D. Positron

22.In which form is carbon primarily stored in the Earth's crust?

- A. Fossil fuels
- B. Oceans
- C. Rocks and minerals
- D. Atmosphere

23.What is a characteristic of a colloid mixture?

- A. Transparent

B. Settles over time

C. Particles can be filtered

D. Components do not settle

24.Which sub-atomic particle is responsible for the majority of an atom's mass?

- A. Proton
- B. Neutron
- C. Electron
- D. Positron

25.In eukaryotic cells, where is DNA primarily located?

- A. Mitochondria
- B. Ribosomes
- C. Nucleus
- D. Golgi apparatus

26.Which element is not located in group one on the periodic table?

- A. Lithium
- B. Helium
- C. Sodium
- D. Nitrogen

27.In humans, the first set of molars typically erupt at what age?

- A. 2-3 years
- B. 6-7 years
- C. 10-12 years
- D. 16-18 years

28.How many stages does the mosquito go through in its life cycle development?

- A. 1
- B. 2
- C. 3
- D. 4

29.What is the space between magnetic field lines representing the strength and direction of the magnetic field?

- A. Magnetic pole
- B. Magnetic field
- C. Magnetic coil
- D. Magnetic force

30.What is the basic unit of electric power?

- A. Volts
- B. Watts
- C. Amperes
- D. Ohms

31.Which source of energy is considered nonrenewable because it is obtained from ancient fossilized plants and animals?

- A. Coal
- B. Wind energy
- C. Biomass energy
- D. Geothermal energy

32.What type of farming is commonly practiced in developed countries with advanced agricultural techniques?

- A. Mixed farming
- B. Subsistence farming
- C. Commercial farming
- D. Extensive farming

33.What type of organism is always at the base of a food chain or food web?

- A. Herbivore
- B. Carnivore
- C. Decomposer
- D. Producers

34.Which planet is referred to as the ice giant due to its icy composition?

- A. Jupiter
- B. Saturn
- C. Uranus
- D. Neptune

35. Which type of teeth are located at the back of the mouth and are used for grinding and crushing food?

- A. Incisors
- B. Canines
- C. Premolars
- D. Molars

36. The force that pulls objects toward the center of the Earth is

- A. friction
- B. magnetism
- C. electricity
- D. gravity

37. A boy of mass 40 kg climbs to a height of 5 m. Calculate the potential energy gained. ($g = 10 \text{ m/s}^2$)

- A. 1000 J
- B. 2000 J
- C. 1500 J
- D. 2500 J

38. Calculate the kinetic energy of a 2 kg object moving at a speed of 3 m/s.

- A. 3 J B. 6 J C. 9 J D. 18 J

39. An object has a mass of 10 kg and is accelerating at 2 m/s^2 . Find the force acting on it.

- A. 5 N B. 10 N C. 20 N D. 40 N

40. A 50 kg sack is lifted to a height of 2 m. Calculate the potential energy stored in the sack. ($g = 10 \text{ m/s}^2$)

- A. 100 J B. 500 J C. 1000 J D. 1500