



HERITAGE GLOBAL ACADEMY

2, Ola Iya Close, Off Okiki Street, Isawo Road, Owutu, Agric-Ikorodu Lagos.

Third Term (2023/2024 Session) Examination

Subject: BASIC SCIENCE (THEORY)

Class: JS 3

Time: 60MINS

INSTRUCTION: Answer **SIX (6)** questions in this section.

1. (a) What is sound? (2 marks)
(b) Explain the transmission of sound. (3 marks)
(c) What is electricity? (2 marks)
(d) Differentiate between parallel and series arrangement. Support your answer with appropriate diagrams. (3 marks)
2. (a) What is magnetism? (1 mark)
(b) Highlight **TWO** care of magnets. (2 marks)
(c) State the laws of magnetism. (1 mark)
(d) Define the following
(i) current
(ii) potential difference
(iii) Resistance (6 marks)
3. (a) State the difference between fuse and circuit breaker. (2 marks)
(b) Differentiate between parallel and series arrangement. (2 marks)
(c) Define each of the following terms and draw the symbols of the instruments used to measure them:
(i) Current
(ii) Potential difference
(iii) Resistance (6 marks)
4. (a) A radio set rated 3W is used for 12 hours per day for 65 days. Find:
(i) the quantity of electrical energy consumed; (2 marks)
(ii) the cost incurred if 1 kWh is 50 kobo. (2 marks)
(b) Define skills. (1 mark)
(c) List six (6) examples of skilled that can be acquired. (3 marks)
(d) Highlight two (2) importance of skill acquisition. (2 marks)
5. (a) Define body image. (1 mark)
(b) Highlight 4 effects of puberty on body image. (4 marks)
(c) Highlight five (5) reasons for acquiring skills. (5 marks)
6. (a) What is a lever? (2 marks)
(b) List five (5) examples of simple machines. (5 marks)
(c) Describe the three classes of lever. Support your explanations with diagrams. (3 marks)
7. (a) Define radioactivity (2 marks)
(b) Give the names and symbols of the three types of radiation. (3 marks)
(c) List five (5) examples of radioactive elements. (5 marks)