TEST PAPER: PHYSICS

Time: 45 Minutes **Class:** I.C.S.E. 9

Max. Marks: 30 Marks **Date:** 31st October 2018

Marking Scheme: *All questions carry 10 marks each. Subparts (A) and (B) carry 3 marks each and subpart (C) carries 4 marks.*

Question 1:

1. Define the term 'induced magnetism'. What is meant by the phrase 'induction precedes attraction'?

2. State 3 differences between permanent magnet and electromagnet

3. State three evidences of the existence of earth's magnetic field. Explain any one of them in detail.

Question 2:

1. Solve the following:
   a. In transferring 1.5 C charge through a wire, 9 J of work is needed. Find the potential difference across the wire
   b. A bulb draws current 1.5 A at 6 V. Find the resistance of filament of bulb while glowing

2. State three differences between primary cell and secondary cell.

3. Draw an electric circuit diagram showing various components like the cell, key, rheostat, bulb, voltmeter and ammeter. Also state the function of each of these components.

Question 3:

1. Draw the pattern of magnetic field lines near a bar magnet placed with its north pole pointing towards the geographic north. Indicate the position of neutral points by marking an 'x'

2. You are given a magnetized bar and a compass needle. How will you identify the polarities of the bar (i.e. which end of the bar magnet is north pole and which one is the south pole)

3. State the four factors affecting resistance of a conductor and also mention how these factors affects the resistance.