#### SUMMATIVE ASSESSMENT - I

#### CLASS - X

#### SUBJECT - SCIENCE

M.M. 90

(5)

(5)

- Question paper consist three sections A, B and C.
- All questions of Section A, Section B and Section C are to be attempted separately.
- All questions are compulsory.

#### 'SECTION- A'

- Q.1 The potential difference across the terminals of a cell is 1.5 volts. It is connected (1) with a resistance of 30 ohm. Calculate the current following through the circuit?
- Q.2. Define resistivity of a conductor. Is the resistivity of an alloy lower or higher than (2) that of its constituent metals?
- Q.3. What is short-circuiting? State one factor/ condition that can lead to it. Name a device in the household that acts as a safety measure for it. State the principle of its working.
- (3)

  (b) What is a solenoid?

  (b) Draw the pattern of magnetic field produced around a current carrying
- solenoid compare this field to that of bar magnet
- Ø.5. With the help of circuit diagram, compute -
  - (a) Equivalent resistance
  - (b) Current through each resistor separately
  - (c) Potential difference across each resistor separately.
- Q:6. (a) State joules law of heating
  - (b) Write application of heating effect of electric current
  - (c) Define current and calculate number of electrons in 3.6 coulomb of charge.
- Q:7. (a) What are magnetic field lines? What are its properties (5)
  - (b) Draw field lines around a bar magnet along its length on its two sides and mark the field directions.
  - (c) How is the direction of a magnetic field at a point determined?

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