

Question 10

- (a) Two metal spheres A and B are suspended from two silk threads and a positively charged glass rod is held near A. [3]
- i. Describe what you will observe.
 - ii. What charges are obtained on A and B?
 - iii. Explain the appearance of charges on the basis of electron movement.
- (b) [3]
- i. What does the voltage of a battery cell tell us about the electric charge on the terminals of the battery?
 - ii. From which terminal do electrons leave, to flow through the wire?
 - iii. In what direction, does the conventional current flow through the wire?
- (c) Give a short account of the earth's magnetic field. [4]