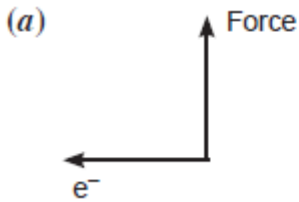


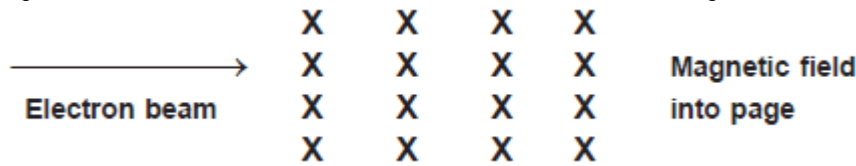
1 State important features of the magnetic field obtained inside the solenoid. Write one use of solenoid. 1

2 State the direction of magnetic field in the case as shown.



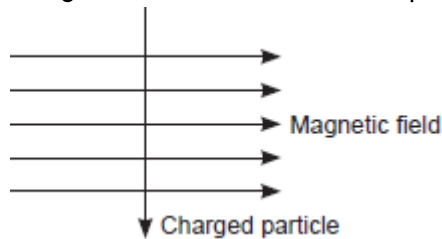
3 An electron does not suffer any deflection while passing through a region of uniform magnetic field. What is the direction of magnetic field? 1

4 The diagram shows a beam of electrons about to enter a magnetic field. The direction of the field is into the



page. 1
What will be the direction of deflection, if any, as the beam passes through the field?

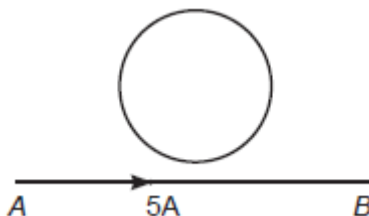
5 A charged particle enters at right angles into a uniform magnetic field as shown. What should be the nature of charge on the particle if it begins to move in a direction pointing vertically out of the page due to its interaction



with the magnetic field? 1

6 An electron beam is moving vertically upwards. If it passes through a magnetic field which is directed from south to north in a horizontal plane, then in which direction will the beam deflect? 1

7 A steady current of 5 A is flowing through a conductor AB. Will the current be induced in the circular wire of radius 1m? 1



8 What type of core should be used inside a solenoid to make an electromagnet? 1

9 Name the device used to prevent damage to the electrical appliances and the domestic circuit due to overloading.

1

10 Give one difference between the wires used in the element of an electric heater and in a fuse.

1