

Name of the Student: \_\_\_\_\_

Max. Marks : 17 Marks

Time : 17 Minutes

Mark Schemes

**Q1.**

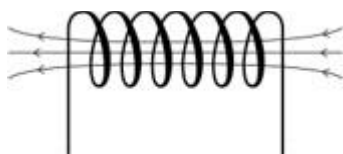
(a) direction (of the magnetic field)

1

(b) increase the current in the wire

1

(c)



1

(d) **D A B C**

*allow 1 mark for D B A C*

2

(e) decrease the distance between the electromagnet and the iron arm

1

(f)  $\text{period} = \frac{1}{6.25}$

1

period = 0.16 (s)

1





(g) **B**

1

**[9]**

**Q2.**

(a) all ticks correct

	Attract	Repel
	✓	
	✓	
		✓
		✓

allow 1 mark for 3 correct ticks

2

(b) the magnetic field gets weaker further from the magnet

1

the magnetic field is strongest at the poles

1

(c) iron

1

(d) coil

1

(e) the magnetic field would be stronger

1

(f) the magnetic field would be weaker

1

[8]