### **Experimental Competition**

5 May 2011

Student Code



Q	uestion Number 1
	Page No.
	Total No.

#### **Experimental Question 1: Levitation of Conductors in an Oscillating Magnetic Field**

#### **ANSWER FORM**

a.	Expression for $\epsilon(t)$ :	
	Expression for $I(t)$ :	
b.	Expression for $B_r$ in terms of $r$ and $d\Phi_{\rm B}/dz$ :	
c.	Magnitude of $\alpha$ :	
d.	Circuit diagram:	
	The resistance $R_{thin}$ of the thin ring:	
e.	The resistance <i>R</i> of the broad closed ring:	

# **Experimental Competition** 5 May 2011

		12	
	3		
isi	ael	20	

Question Nu	mber 1
Page N	о.
<b>T</b>	

Student Co	ode				srael a	2011		To	otal No.	
i. The in	i. The inductance $L$ of the broad closed ring:									
Result tables for parts (f), (g) and (h):										

## **Experimental Competition**

5 May 2011

Student Code



<b>Question Number 1</b>
Page No.
Total No.

# **Experimental Competition** 5 May 2011

Student Code



Question Number 1
Page No.
Total No.
