

INFORMATION SHEETS FOR TEST 2

Sufficient copies of these information sheets should be made in advance.

The **Information sheet 1(a)** required depends upon the apparatus available:

If candidates are to use a two way switch, the following information sheet is appropriate:

INFORMATION SHEET 1(a):

Test 2

The circuit should be set up as follows:

The diagram shows a 9 V d.c. source connected to a two-way switch. The switch has two positions: position 1 connects the source to a capacitor labeled $C, 2200\mu\text{F}$; position 2 connects the source to an unknown resistor R . The voltmeter V is connected in parallel with the resistor R .

When the switch is in position 1, the capacitor is charging. By switching to position 2, the capacitor discharges through the resistor R .

If candidates are provided with two press-to-make switches, the following information sheet may be used:

INFORMATION SHEET 1(a):

Test 2

The circuit should be set up as follows:

The diagram shows a 9 V d.c. source connected in series with two press-to-make switches, S_1 and S_2 . A capacitor labeled $C, 2200\mu\text{F}$ is connected in parallel with switch S_1 . An unknown resistor R is connected in parallel with switch S_2 . The voltmeter V is connected in parallel with the resistor R .

When switch S_1 is pressed, the capacitor charges. When S_1 is released and S_2 is pressed the capacitor discharges through the resistor