

# Multimeter Exercises

## Question 1



What is the multimeter being used to measure?

## Question 2



a) Is the multimeter being used to measure A.C. voltage or D.C voltage?

b) What is the maximum voltage that can be measured on this setting?

## Question 3



a) What is the maximum current that can be measured with the multimeter on this setting?

b) Why might the current reading be zero and the circuit stop working when the multimeter is added as an ammeter?

## Question 4



a) What is the multimeter measuring?

b) What is the difference between the setting in question 3 and in question 4?

## Question 5



a) What is the multimeter set to measure?

b) What is the maximum value that can be measured?

c) What could you do if the display showed “out of range”

# Answers

## Question 1

The multimeter is being used as a continuity tester. It is measuring whether or not a circuit is complete and unbroken.

## Question 2

- a) D.C. Voltage
- b) 19.99 V (up to but not including 20 V)

## Question 3

- a) 19.99 mA
- b) Because the fuse has blown and the multimeter is open circuit.

## Question 4

- a) Current
- b) In question 3 the multimeter is measuring D.C. current up to a value of 19.99 mA whereas in question 4 the multimeter is measuring A.C. current up to a value of 199.9 mA.

## Question 5

- a) Resistance
- b) 199.9  $\Omega$
- c) Select a higher range such as 2k or more