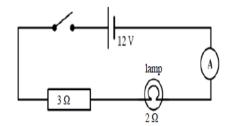
RATU NAVULA COLLEGE Y12 PHYSICS WORKSHEET 7 QP

2020 SAMPLE

1.

A lamp of 2Ω resistance is connected to a 3Ω resistor in series as shown below.



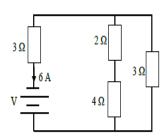
The total resistance of the circuit is

- A 2Ω
- B. 5Ω

- C. 6Ω
- D. 12Ω

2.

Sera connects various resistors as shown in a combination as shown below. The current from the power supply is 6 A.



- Calculate the effective resistance of the circuit. (i)
- (2 marks)
- Calculate the voltage of the power supply.
- (1 mark)
- Calculate the voltage across the 3 Ω resistor.
- (1 mark)

3.

The diagram below shows an electrical safety device that melts when too much current flows through it.



The device above is known as

fuse. switch

- circuit breaker.
- junction box.

2014

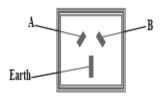
Which of the electrical symbols given below is for a fuse?

5. Give one advantage of using a circuit breaker instead of a fuse.

2008

6.

The basic outline of a three pin electric socket is shown below.



What do pins A and B represent?

(1 mark)

(1 mark)

State the colour of wire that would be connected to the earth pin and pin A.

THE END