**Y11 Applied Technology Worksheet # 4**

**Instruction:** Please do attempt this at the back of your exercise book.

**QUESTION 4**                                                                                    **(10 marks)**

(1)     Electricity is used to power many of the things that is used every day such as
        televisions, computers, telephones, electric fans, microwaves, etc.

   (i)     Define the electrical term **voltage**.                                          **(1 mark)**

   (ii)    Name the **three** main terminals of a three pin plug electrical wire.      **(3 marks)**

   (iii)   A 15 Volts battery supply is applied to three resistors 5Ω, 4Ω and 3Ω all
           connected in series.

           Calculate the following:

           I.      The total resistance.
           II.     The total current flow.

                                                                                         **(4 marks)**

(2)     State the uses of the following tools in plumbing:

           I.      Hacksaw
           II.     Adjustable spanner

                                                                                         **(2 marks)**

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