

Name of the Student: _____

Max. Marks : 18 Marks

Time : 18 Minutes

Mark Schemes

Q1.

L

N

M

K

all four in the correct order

2 marks for 2 correct

1 mark for 1 correct

[3]

Q2.

(a) 230

1

50

1

(b) (i) has a plastic case

accept outside is plastic

accept cover / handle/ hair dryer is

plastic / non-conductor

or does not have a metal case **or** plastic is an insulator

accept is double insulated

1

(ii) copper

1

[4]

Q3.

(a) voltmeter

and no other

*do **not** accept voltage*

1

(b) (i) variable resistor

1

- (ii) 0.10 – 0.30
 accept 0.1 – 0.3
 accept 0.3 – 0.1
 accept 0.30 – 0.10
 1
- (iii) 3.3 (W)
 allow **1** mark for correct data choice
 allow **2** marks for substitution of correct data i.e. 0.30×11.0
 the following answers gain **2** marks
 $0.10 / 0.30 / 0.80 / 1.75$
 allow **1** mark for substitution of incorrect of data incorrectly calculated e.g.
 $0.20 \times 4.0 = 0.6$ scores **1** mark
 3
- (c) increases
 1
- [7]**

Q4.

- (a) electrical
 1
- sound
 correct order only
 1
- (b) the energy transformed by the TV will be destroyed
 1
- (c) a higher efficiency than
 1
- [4]**