

2.2 Electrical Power Past Paper Questions

1. Appliances convert electrical energy into other forms of energy.
State the **useful** energy output from the following appliances.
- (i) Lamp: electrical energy energy (1)
- (ii) Kettle: electrical energy energy (1)
- (iii) Hair dryer: electrical energy energy (1)
- (iv) Food processor: electrical energy energy (1)
2. What are the units associated with Energy? (1)
3. What is meant by the 'electrical power' of an appliance? (1)
4. What units are used when measuring electrical power? (1)
5. Find 5 appliances in your household and state the power rating of each. (5)
6. Construct a table showing your results for Q5 and state what energy changes are involved with each appliance. (3)
7. A hairdryer rated at 2kW is used for 20 mins. Calculate the energy used in this time. (3)
8. Calculate the power consumption of a kettle using 45000J for 2 minutes. (3)
9. How long is an iron used for, in minutes, if it is rated at 1800W and requires 654000J while being used? (3)

Total Marks 24

