

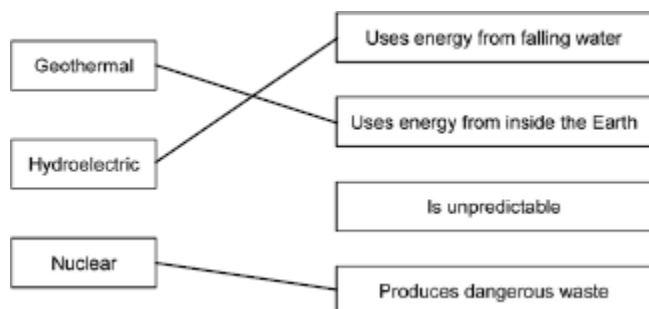
Name of the Student: _____

Max. Marks : 21 Marks

Time : 21 Minutes

Mark Schemes

Q1.



allow 1 mark for each correct line

if more than one line goes from an energy source then all lines from that energy source are wrong

[3]

Q2.

(a) electrical

1

chemical

1

light

1

(b) 25% or 0.25

allow 1 mark for correct substitution, ie $50 \div 200$ provided no subsequent step shown

or

answers of 25 with a unit or 0.25 with a unit gain 1 mark

answers of 25 without a unit or 0.25% gain 1 mark

2

(c) the information board can be used anywhere it is needed

1

[6]

Q3.

(a) iron

1

hairdryer

1

kettle

1

answers can be in any order

(b) (i) Y

1

(ii) bar drawn with any height greater than Y
ignore width of bar

1

(c) (bigger volume) takes more time (to boil)
accept explanation using data from graph

1

(so) more energy transferred
*do **not** accept electricity for energy*

1

(and) this costs more money
ignore reference to cost of water
wasting more money because heating more water than needed is
insufficient

1

[8]

Q4.

(a) (i) an unreliable energy source

1

(ii) a renewable energy source

1

(b) plant / grow (at least) one new tree

1

(c) greater than 4%

1

[4]