

Name of the Student: _____

Max. Marks : 17 Marks

Time : 17 Minutes

Mark Schemes

Q1.

- (a) (i) photosynthesis for growth
 accept plants require sunlight for growth
1
- plants change into coal
 any mention of animals negates second mark
1
- (ii) burning
 *do **not** accept heating*
 accept combustion
1
- (b) (i) heat
1
- (ii) less heat radiated into space
 accept increased insulation round earth
 accept reflects heat back to earth
 accept greenhouse effect
 *accept traps heat **or** energy*
1

[5]

Q2.

- any **one** from:
 *basic idea of reduced use of fuels to heat homes **or** offices **or** shops for*
 1st mark
- less (heat) energy wasted (to the environment)
- reduced demand for fuels to heat homes etc
 simply re-quoting figures gets no credit
1
- any **one** from:
 idea of less pollution for the 2nd mark
- reduced (air) pollution

do **not** accept no pollution

fewer power stations required **or** less electricity needs to be produced

less (fossil) fuels being burnt (in power stations)

reduced greenhouse effect

reduced global warming

1

[2]

Q3.

(a) (i) sources of energy

for 1 mark

(ii) wood coal
oil
gas

all correct gains 2 marks

3 correct gains 1 mark

3

(b) geothermal nuclear
tides
wind
solar

all correct gains 2 marks

4 correct gains 1 mark

2

(c) non-renewable fuels cause pollution (or reverse)
conserve/limit use of coal/gas/oil;
so supplies last longer/renewable sources can be replaced

any 2 from 4 for 1 mark each

2

[7]

Q4.

(i) reduces

for 1 mark

1

(ii) less heat/energy/power wasted (in power lines)

for 1 mark

1

(iii) for safety

for 1 mark

1

[3]