(Finite and renewable resources)

Q1. (2018)

any **two** from:

- poly(propene) comes from a non-renewable source
- poly(propene) requires a lot of energy to make
- poly(propene) is not biodegradable
- a wool carpet needs replacing more often
- wool requires the use of large areas of land (which could be used to grow food crops)

Q2. (2019)

Tube 1: (nail) rusts because air / oxygen **and** water present

Tube 2: (nail) does not rust because no water

Tube 3: (nail) does not rust because no air / oxygen

Tube 4: (nail) does not rust because paint is a barrier (to water / air / oxygen)

Tube 5: (nail) does not rust because stainless steel resistant to corrosion

Q3. (2019)

magnesium is more reactive (than iron)

(so magnesium) provides sacrificial protection

Q4. (2019)

(aluminium has a coating of)
aluminium oxide

(so the aluminium oxide)
protects the metal (from further corrosion)

Q5. (2019)

wood is renewable
or
(natural) gas is finite

(burning) wood produces the same amount of carbon dioxide as the trees absorbed
or
(burning natural) gas increases the amount of carbon dioxide (in the atmosphere)

Q6. (2021)

use of oil has decreased by 0.8%
or
use of oil has decreased from 1.3% to 0.5%

use of solar energy has increased by 3.4%
or
use of solar energy has increased from 0% to 3.4%

any **one** from:
- use of oil increased from 2007 to 2009
- no change in oil use between 2013 and 2015
- no change in solar energy use between 2007 and 2009
- use of solar energy increased most between 2013 and 2015
- between 2007 and 2011 more oil was used **and** between 2013 and 2017 more solar energy was used

Q7. (2021)

solar is (a) renewable (source of energy)

Q8. (2021)

any **two** from:
- sunshine is unreliable
- increased demand for energy
- lack of space