Different wavelengths of light are absorbed by different gases. Use this to explain:

(i) why little UV light reaches the Earth’s surface

(ii) how the troposphere is heated by the Earth.

How does the solar radiation that reaches the Earth’s atmosphere differ from:

(a) (i) the solar radiation reaching the Earth’s surface;

(a) (ii) the electromagnetic radiation emitted from the Earth’s surface?

(b) What is meant by the albedo of a surface?

(c) (i) Outline the concept of the Gaia hypothesis.

(c) (ii) Outline how increased cloud cover may be used to illustrate the Gaia hypothesis.