**Global warming sample exam questions**

1. Explain what is meant by the greenhouse effect. (3)

2. Why is the greenhouse effect normally of benefit to the Earth and its organisms? (2)

3. List 4 greenhouse gases in order of importance. (2)

4. Explain the sources of these four greenhouse gases. (4)

*5.* Describe the increase in the levels of carbon dioxide i.e. how much has it increased, when did the increase begin and what are the main causes of the increase in carbon dioxide level? (5)

6. What are the main sources of methane, CFC’s and water vapour, the other greenhouse gases? (3)

7. Have their levels been increasing and if so, why? (3)

8. Explain how at least four human activities such as deforestation, burning fossil fuels, rice and cattle farming and use of CFC’s add to greenhouse gases. (4)

9. Discuss four ways in which global emission of greenhouse gases can be reduced (include conservation of energy (including carbon tax) and use of alternative energy sources). (4)

10. What is global warming and how is it related to the greenhouse effect? (2)

11. Why might the following processes occur due to global warming:

(i) thermal expansion of the oceans, (1)

(ii) melting of the polar ice caps, (1)

(iii) the effect of air pollutants (aerosols) in reflecting radiation, thus offsetting the warming trends. (1)

12. How may global warming affect the planetary distribution of biomes? (2)

13. If the distribution of biomes changes what impacts might this have on global agriculture? (2)

14. What international measures have been taken to combat global warming? How successful have these measures been? (5)

15. List five ways in which emissions of greenhouse gases can be reduced in your local community. (3)

16. Discuss the complexities and uncertainties surrounding the issue of climate change. (5)

17. Draw diagrams to show a positive and negative feedback loop for global warming (showing inputs, outputs, stores and processes): (6)