2(c)	**Explain the role of greenhouse gases in global warming.**	**4**
2(c)	**Explain why temperatures in urban areas are often higher than in surrounding areas.**	**6**
2(c)	**Explain why the type of precipitation may vary in one location.**	**5**
2(c)	**Explain why reflected solar radiation may vary over time.**	**4**
2(c)	**Explain why there can be a difference between the state of water during the daytime and night-time.**	**4**
2(c)	**Explain <u>one</u> factor, other than ocean currents, that affects the seasonal variation of temperature in the Southern Hemisphere.**	**3**
2(c)	**Explain why temperature varies across an urban area.**	**5**
2(c)	**Explain <u>one</u> factor, other than ocean currents, that affects the seasonal variation of temperature in the Northern Hemisphere.**	**3**
5(a)(ii)	**Describe the enhanced greenhouse effect.**	**3**
5(a)(ii)	**Describe the difference between sensible heat transfer and latent heat transfer.**	**3**
5(b)	**Describe and explain the global latitudinal pattern of radiation excesses and deficits.**	**8**
5(b)	**Explain the latitudinal pattern of radiation excesses and deficits.**	**8**
5(b)	**Describe and explain how the energy budget is different between daytime and night-time.**	**8**
5(b)	**Explain the daytime part of the diurnal energy budget.**	**8**
5(b)	**With reference to <u>one</u> urban area, describe and explain the effects of human activity on precipitation and winds.**	**8**
5(b)	**Explain how ocean currents influence surface temperatures on land.**	**8**
5(b)	**Describe the distribution of global pressure belts and explain their seasonal variation.**	**8**
5(b)	**Explain how land and sea distribution affects seasonal variations in atmospheric pressure.**	**8**
5(b)	**Explain the development of an urban heat island.**	**8**
5(b)	**Explain how human activity affects precipitation and winds in urban areas.**	**8**
5(b)	**Describe and explain the formation of an urban heat island.**	**8**

5(b)	**Explain how frontal uplift of air and orographic uplift of air cause precipitation.**	**8**
5(b)	**Explain how the distribution of land and sea influences seasonal variations in temperature.**	**8**
5(b)	**Explain the role of absorbed energy in the diurnal energy budget.**	**8**
5(b)	**With reference to one urban area, describe and explain the effects of human activity on temperature and humidity.**	**8**
5(b)	**Explain the role of shortwave radiation and longwave radiation in the diurnal energy budget.**	**8**
5(c)	**With the aid of examples, discuss the view that wind belts are the most important influence on the atmospheric transfer of energy.**	**15**
5(c)	**'Ocean currents are the most important influence in the atmospheric transfer of energy.'** **With the aid of examples, how far do you agree?**	**15**
5(c)	**With the aid of examples, assess the extent to which albedo is the most important factor in determining the diurnal energy budget.**	**15**
5(c)	**With the aid of examples, assess the extent to which reflected solar radiation is the most important factor in determining the diurnal energy budget.**	**15**
5(c)	**'The causes of global warming are only a result of human factors.' With the aid of examples, how far do you agree?**	**15**
5(c)	**With the aid of examples, examine the most significant cause of the enhanced greenhouse effect.**	**15**
5(c)	**With the aid of examples, assess the extent to which ocean currents are the main energy transfer within the global energy budget.**	**15**
5(c)	**'The most significant effect of human activity on urban climates is on humidity.'** **With the aid of examples, how far do you agree?**	**15**
5(c)	**With the aid of examples, evaluate the possible causes and atmospheric impacts of the enhanced greenhouse effect.**	**15**
5(c)	**'Emissions from transport are the main cause of the enhanced greenhouse effect.' With the aid of examples, how far do you agree?**	**15**
5(c)	**'The atmospheric impact of global warming depends on latitude.'** **With the aid of examples, how far do you agree?**	**15**

5(c)	**'Ocean currents are as important as winds in transferring global heat energy.' With the aid of examples, how far do you agree?**	**15**
5(c)	**With the aid of examples, assess the extent to which the urban heat island influences other characteristics of urban climate.**	**15**
5(c)	**With the aid of examples, assess the view that latitude is the most important factor in seasonal variations in pressure and wind belts.**	**15**
5(c)	**'Convection is the main cause of precipitation.'** **With the aid of examples, how far do you agree with this statement?**	**15**
5(c)	**'Land and sea distribution has the greatest effect on seasonal variations in global pressure systems.'** **With the aid of examples, to what extent do you agree?**	**15**