

Ecosystems influenced negatively ✓✓  
 Flooding of crops/ vegetation, livestock ✓✓  
 Saline intrusion from the ocean ✓✓  
 Contamination of water ✓✓  
**[Any FOUR – Must discuss both issues]**  
**[Accept other logical answers.]**

(4x2)(8)  
**[15]**

#### QUESTION 8: URBAN CLIMATE

8.1 Urban Heat Island is the name given to describe the warmer atmosphere and surface of the cities/SSG to the non-urbanised surroundings. ✓  
**[CONCEPT]**

(1x1)(1)  
 (1x2)(2)

8.2  $35^{\circ}\text{C} - 30^{\circ}\text{C} = 5^{\circ}\text{C}$  ✓✓

8.3 **SSG**

Artificial material/surfaces. ✓✓  
 Any example of the artificial material e.g., concrete. ✓✓  
 More activity occurs in the SSG. ✓✓  
 Pollution (or examples of pollution e.g.CO<sub>2</sub>/ industries/cars). ✓✓  
 High buildings absorb more heat. ✓✓  
 Dark brick buildings/tar surfaces etc. absorb heat. ✓✓  
 Density of the buildings prevent warm air to escape. ✓✓  
 Artificial heating or examples – air conditioners, lights etc. ✓✓

#### RURAL

More plants/ trees/vegetation. ✓✓  
 Less activities than in the SSG. ✓✓  
 Less pollution/ cars/ industries. ✓✓  
 More grass/ soil/ water surfaces. ✓✓  
**[Any reason for temperature difference]**  
**[Accept other logical answers]**

(1x2)(2)

8.4

	DAY	NIGHT
Shape	Mushroom✓	Dome✓
Vertical Dimension	Vertically higher✓	Vertically lower✓
Air Movement	Higher in the upper air, further from earth's surface. ✓	Descending lower to the earth's surface. ✓

**[Any THREE differences between day and night]**  
**[Accept other logical answers]**

(6x1)(6)

8.5 High rise buildings have large surface areas which result in more absorption and release of heat in the atmosphere. ✓✓  
 The higher the buildings the higher the altitude where heat is released. ✓✓

The closer the buildings are together the more constricted the air movement and release of heat will be. ✓✓

**[Any TWO.]**

**[Must refer to height and density]**

(2x2)(4)  
**[15]**

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**Michael Hoelscher**



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