Since 1998 the Water Corporation has accessed water from the Yarragadee aquifer as a drought contingency measure. Discuss the impact of drawing water from this confined aquifer if extraction does not occur sustainably.
Question 2

The Southern Oscillation Index (SOI) is calculated from the monthly or seasonal fluctuations in the air pressure difference between Tahiti and Darwin. Sustained negative values of the SOI often indicate El Niño episodes. These negative values are usually accompanied by sustained warming of the central and eastern tropical Pacific Ocean, a decrease in the strength of the Pacific Trade Winds, and a reduction in rainfall over eastern and northern Australia. The most recent strong El Niño was in 1997/98, although its effect on Australia was rather limited. Severe droughts resulted from the weak to moderate El Niño events of 2002/03 and 2006/07. Positive values of the SOI are associated with stronger Pacific trade winds and warmer sea temperatures to the north of Australia, popularly known as a La Niña episode. Waters in the central and eastern tropical Pacific Ocean become cooler during this time. Together these give an increased probability that eastern and northern Australia will be wetter than normal. The most recent strong La Niña was in 1988/89. A moderate La Niña developed slowly during 2007.

SOI annual averages versus wheat yield in Eastern Australia

What relationship is there between the SOI and Wheat Yield per hectare in Eastern Australia?
Question 3

Label on the world map:
- Continents
- Oceans
- major rivers
- major mountain ranges

Label on the Australia Map:
- States
- Capital Cities
- Islands
- Seas & Straits
- Capes & Gulfs
What is a graph?

Can you label these following graphs?

1. 

   ![Graph 1](image1.png)

2. 

   ![Graph 2](image2.png)

3. 

   ![Graph 3](image3.png)

When looking at data, what do the following words indicate:

Mean:

Mode:

Range:

Median:
What is the number of people living in Auckland?

What is the Ethnic percentage of Maori living in New Zealand?

Looking at the South Island of New Zealand – describe briefly the population density distribution.
1. **Introduction to Urban Geography: The Planning of Cities**

This photo is of WWII bomb damage in part of London.

Suggest what problems might have been created when the war finished in 1945 as people set about rebuilding whole streets and suburbs that were damaged like this.

In 2012 London is to host the Olympics, and the Olympic Park is being built in the area of the photo. Read the newspaper article overleaf, thinking about how the planners have addressed problems in the area, and built the Olympic facilities in a sustainable manner.

1. What is the name of this part of London?
2. How was the city using this land?
3. What was the state of the Lee River?
4. The plan was to renew this area, as the Olympic Park was built, in a ‘sustainable sense’. What does that mean, and illustrate with some examples?

5. What are some strategies being used to lower the ‘carbon footprint’ of these Games? (see also www.london2012.com, select ‘sitemap’, then ‘The Games’, then ‘venues’ to read about particular planning decisions).
2(a) Students are required to take part in a two day field trip to Perth to examine urban problems and processes that have been studied in class. The following questions are taken from the fieldwork booklet that students have to complete, and they refer to the first location that was investigated.

FIELD TRIP NOTES: PERTH METROPOLITAN AREA INVESTIGATION

Location 1. Cockburn Central Railway Station: a Transport oriented development (TOD).

(a) Describe the situation of Cockburn Central by identifying the key transport links on which it lies?

(b) Perth’s Planning document titled ‘Directions 2031’ identifies the development of an hierarchy of ‘Activity Centres’. Cockburn Central is one of the 19 Secondary centres in this hierarchy. Make a list of key functions provided at this ‘secondary’ location?

(c) Which urban processes can you identify at this location?

(d) From what you have seen at this location, what do you think the concept of a TOD (i.e. a ‘Transport Oriented Development’) is?

2(b) When students had returned to Manea Senior College and completed their classwork to review and clarify the understandings they developed during the field trip, they then had to complete an assessment task. The task required students to include photographs they had taken of significant features of urban geography that they had noticed in Perth. This is the assessment task.
3AGEO Assessment Task: Perth Urban Geography Field Trip

(a) Produce a map annotated with the appropriate Geography syllabus mapping conventions to show the route taken through the Perth Metropolitan Area on the field trip, and the locations that were investigated.

Requirements for this task include annotating major transport routes and suburbs, identifying and shading functional zones or locations visited, identifying key features that were recognized, and including the key conventions of a title, key, north point, scale, border and latitude and longitude.

(10 marks)

(b) Select any 6 locations of the 12 that were investigated, and for each identify the urban characteristics and processes that were present. Use examples to illustrated key points, and where appropriate, comment on any urban problems and/or planning solutions that were noticed.

(36 marks)

(c) Develop a powerpoint presentation of slides to provide a visual reinforcement of aspects of your discussion from part (b) above. The key point of the slides is to demonstrate understanding of urban characteristics and processes.

(12 marks)
3. **Current Affairs Analysis: Is Urban Development in Perth Sustainable?**

Read the following extracts from newspaper articles that illustrate problems associated with Perth’s urban development, and for each write an analysis using the four questions below.

**Article 1**

*Urban sprawl link to health concerns*

1. **What is the urban topic under discussion in this extract?**

2. **Identify four stakeholders referred to in the extract, and for each explain their point of view. At the same time classify each point of view as environmental, social, political or economic.**

3. **Discuss whether or not the newspaper report suggests that Perth is managing this issue in a sustainable way?**

4. **Suggest what might be some environmental, social, political or economic costs of this development.**