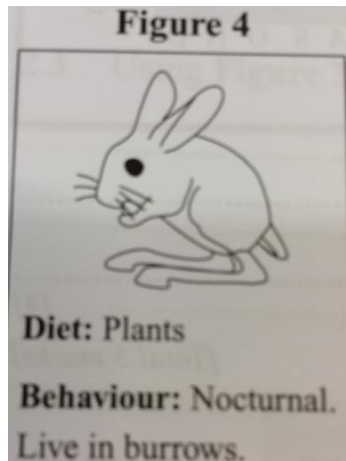
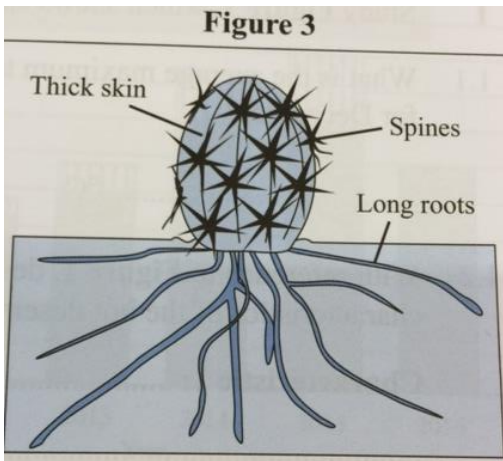




4) Use figure 3 to explain how plants in hot deserts are adapted to the climate (3)



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5) Use figure 4 and your own knowledge, outline 2 ways in which jerboas are adapted to their environment? (2)

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## Answers

1)

1.1 E.g. economic opportunities at Location A may include mining and commercial farming **[1 mark]**. There are mineral resources to the north of the town, which could encourage mining companies to extract them for export **[1 mark]**. The town is also situated on the river, so there is water for irrigation, so there are opportunities for commercial farming, e.g. to the south of the town **[1 mark]**.

*You may also have chosen to write about opportunities for tourism, so you would still get a mark for writing something like 'The town is quite large and has road links to the wildlife reserve to the west, so it may appeal to tourists.'*

2)

1.2 E.g. there are no roads near to Location C, so it is inaccessible **[1 mark]**. This would make it difficult for tourists or workers to reach the area **[1 mark]**. / Location C is a long way from the river and relies on a borehole for water **[1 mark]**. This would make it difficult to develop the area, because most development (e.g. for industry, farming or tourists) require a large, reliable supply of water **[1 mark]**.

3)

1.3 This question is level marked. How to grade your answer:

Level 0: There is no relevant information. **[0 marks]**

Level 1: There is a basic description of the extent of settlement at Location B and Location D. **[1-2 marks]**

Level 2: There is a clear description of the extent of settlement at the two locations, with several reasons for this pattern. **[3-4 marks]**

Level 3: There is a detailed description of the extent of settlement at the two locations and a clear explanation of multiple possible reasons for this pattern. **[5-6 marks]**

Here are some points your answer may include:

- Location B has been quite extensively developed.
- Oil reserves at the site give the opportunity for their exploration and extraction. This creates jobs and means that people move to the area and settle there, creating more opportunities for e.g. retail and service industries.
- The town is connected by road and the river provides a water supply, allowing the industries to develop.
- In contrast, development at Location D is limited to subsistence farming.
- A water source provides sufficient water for small-scale farming, but there is not enough water for large-scale farming or other industries to develop.
- There are no roads close to Location D, so the area is also inaccessible, hindering development of tourism.

4)

Any three from: e.g. plant roots are extremely long to reach very deep water supplies *[1 mark]*. / Plant roots spread out very wide near the surface to catch as much water as possible when it rains *[1 mark]*. / Cacti have thick skin to reduce water loss *[1 mark]*. / Plants have spines or small spiky leaves to reduce water loss *[1 mark]*. / Cacti have swollen stems to store water *[1 mark]*.

5)

Any two from: e.g. large ears give a large surface area, which helps the jerboa to lose heat *[1 mark]*. / Large feet help the jerboa move without sinking into the sand *[1 mark]*. / Jerboas are nocturnal, so they can avoid the heat in the daytime and save energy *[1 mark]*. / Jerboas live in underground burrows, where temperatures are lower *[1 mark]*.