**7** The kakapo, *Strigops habroptila*, is a species of large, nocturnal (active at night) parrot and is found only in New Zealand. The bird does not fly and lives on the ground.

The kakapo is classified as critically endangered on the International Union for Conservation of Nature (IUCN) Red List of Threatened Species™.

Fig. 7.1 shows a kakapo.

**Fig. 7.1**

**(a)** Complete Table 7.1 to show the classification of the kakapo.

**Table 7.1**

| taxonomic group | name |
|---|---|
| domain | Eukarya |
| kingdom | Animalia |
| ..... | Chordata |
| class | Aves |
| ..... | Psittaciformes |
| family | Strigopidae |
| genus | ..... |

[3]

**(b)** The kakapo was widely distributed before humans arrived in New Zealand. The Kakapo Recovery Programme started in 1995. Birds were moved to protected areas. In 2024 they were only found in these protected areas.

This is shown in Fig. 7.2.

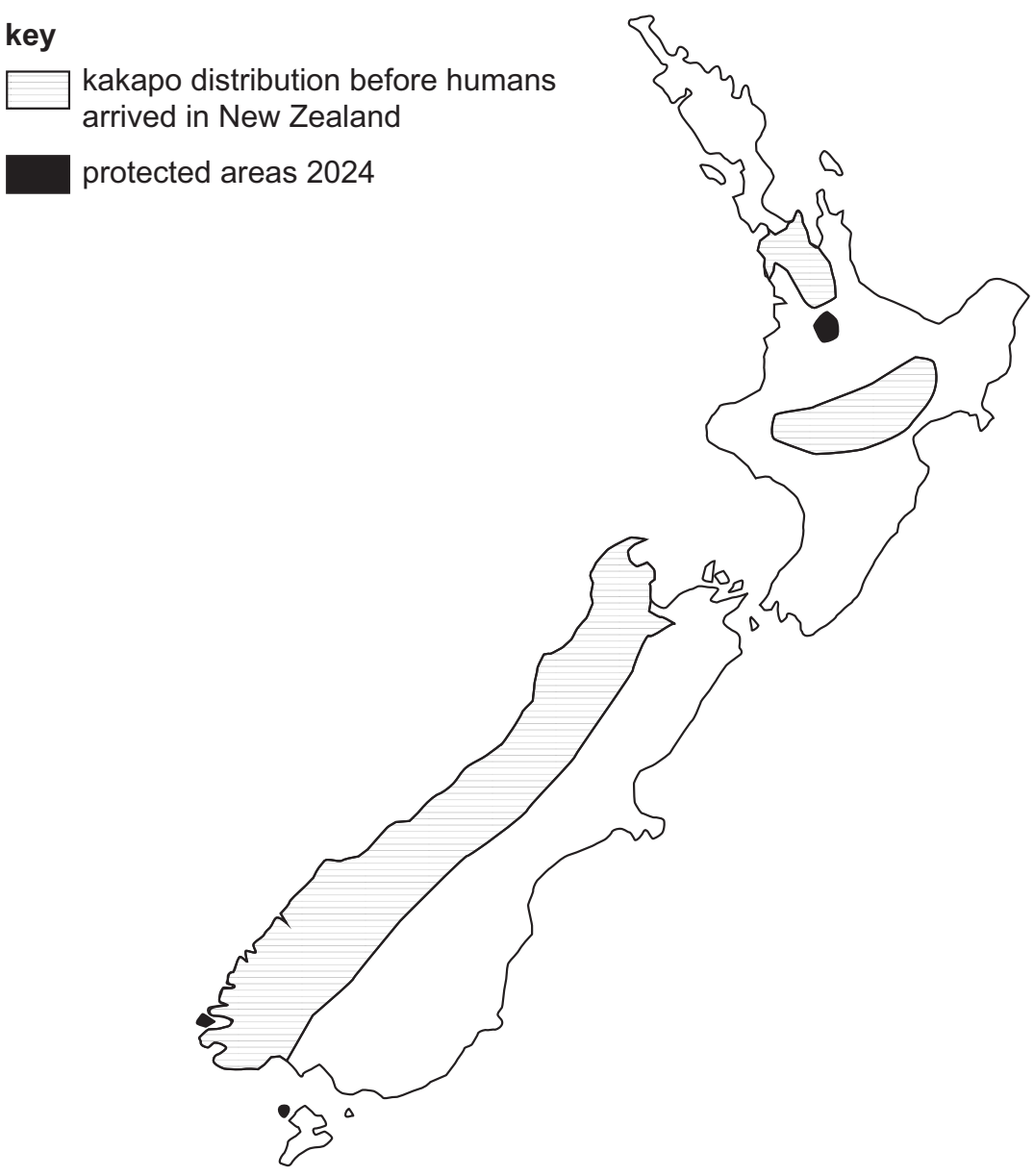


**Fig. 7.2**

Suggest the ideal features of a protected area for the kakapo.

.....

.....

.....

.....

.....

.....

..... [3]

**(c)** DNA has shown that the kakapo population may have gone through one or more genetic bottlenecks after the arrival of humans in New Zealand.

Suggest the consequences of a genetic bottleneck to the kakapo population in New Zealand.

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]

[Total: 10]