

Urinary System

Question Paper

Level	Edexcel
Subject	Biology
Exam Board	GCSE(9-1)
Topic	Animal Coordination, Control and Homeostasis
Sub Topic	Urinary System
Booklet	Question Paper

Time Allowed: 15 minutes

Score: /12

Percentage: /100

- 1 The kangaroo rat is a mammal that can survive in desert environments and can tolerate much higher concentrations of sodium ions in their bloodstream than humans.

Figure 16 shows an image of the kangaroo rat.



(Source: Richard R. Hansen/Science Photo Library)

Figure 16

(a) The name of the process that controls water levels in the body is

(1)

- A diffusion
- B osmosis
- C osmoregulation
- D thermoregulation

(b) (i) Explain how the blood entering the nephron of the kangaroo rat is filtered to remove excess sodium ions and water.

(3)

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The kangaroo rat has a longer loop of Henle than most mammals.

(ii) Explain why this adaptation is beneficial to the kangaroo rat.

(2)

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