

Tobermory High School

Standard Grade Biology

Animal Survival

Water & Waste

1. Explain the role of ADH in the regulation of water balance in the body. (2)
2. List the ways in which we gain and lose water. (2)
3. Describe the source of urea in the body and explain how it is removed. (3)
4. Write down the meanings of the following:
(a) dialysis (d) renal vein
(b) filtration (e) reabsorption
(c) ureter (f) bladder (6)
5. Use the following data to calculate the percentage of water in each food sample.

Food type	Fresh weight (g)	Dry weight (g)
Apple	60	9
Bread	40	25
Fish	140	32
Potato	51	8

(8)

6. The following table refers to the daily water balance in the human body.

Water gain	ml	Water loss	ml
Chemical reactions	1400	Sweat	450
	750	Breathing	350
	350	Faeces	150
			1150

- (a) Copy the table and complete to include the totals for each side. (1)
- (b) Draw bar graphs of gain and loss. (4)
- (c) Draw pie charts for gain and loss. (4)

Total = 30