

Water control

Mark scheme

1. (a) respiration 1
clear indication eg tick, underlining, others crossed out
- (b) lungs 1
- (c) liver 1
- (d) amino acids 1
- [4]**
2. (a) glucose
- urea
- water
- sodium ions
- protein max 2
- all 3 correct = 2 marks
2 correct = 1 mark
0 or 1 correct = 0 marks*
- (b) (i) protein cannot pass through filter
or
protein (too) large
or
protein stays in the blood 1
- (ii) reabsorbed 1
- (c) (i) less 1
- (ii) more 1
- [6]**
3. (a) (i) bladder 1
- (ii) glucose 1
- protein 1
extras – CANCEL
- (b) (i) any **two** from:
- kidney functions all the time / not just 3 x 8 h sessions a week
allow direct quotation of correct points from the list
 - can eat high-protein foods / high salt foods
allow can eat anything
 - cheaper

Unit B3, B3.3.1 Mark Scheme

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|------|------|---|---|
| | • | waste of time | 2 |
| (ii) | | have to take (immunosuppressant) drugs / consequence of this
eg catch infections / may suffer brain damage / possible
rejection of kidney or become ill more easily
or
risk of brain damage (due to anaesthetic)
<i>allow direct quotation of correct points from the list</i> | 1 |
| (c) | (i) | urea | 1 |
| | (ii) | 4.2 | 1 |

[8]