

Mark schemes

Q1.

- (a) regulation / control / maintenance of internal conditions
allow keeping internal conditions the same 1
- for optimum conditions for cell(s) / enzyme(s) (activity)
allow a description of optimum functioning of cell / body 1
- (b) glucose **and** urea are filtered (out of the blood)
*allow a description of filtration of glucose **and** urea (out of the blood)* 1
- protein is not filtered (out of the blood) 1
- all glucose reabsorbed
allow all glucose absorbed back into the blood 1
- urea (mostly) not reabsorbed
or
 urea passes out in urine
allow urea not absorbed back into the blood 1
- (c) (increased / high) ADH increases water reabsorption
or
 (increased / high) ADH increases permeability to water
allow converse for decreased / low / no ADH 1
- (water reabsorption) from kidney tubules 1
- (so) ADH increases the concentration (of urine) 1
- (so) ADH decreases the volume (of urine) 1

[10]