

The kidneys are positioned on each side of the spine, below the lowest rib. A blood vessel called the ..... supplies the kidney with ..... blood. The blood then passes a fine network of capillaries that make up the glomerulus. Molecules in the blood with a relative molecular mass (RMM) less than ..... then move into the Bowman's capsule in a process called .....

.....[4]

The results obtained are shown in **Table 1**.

Patient	Colour of filtrate after reagent has been added
<b>A</b>	pale blue
<b>B</b>	light purple
<b>C</b>	dark blue



(c) State the macromolecule that is being tested for using the reagent.

.....[1]

(d) Using the information in **Table 1**, suggest and explain which of the patients is most likely to suffer from kidney failure.

.....  
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.....  
.....  
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.....  
.....[3]

An individual with kidney failure can choose to undergo renal dialysis.

(e) Describe the general process of renal dialysis.

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.....  
.....[3]

(f) It is said that it is vital that renal dialysis is combined with a carefully monitored diet. Suggest what is meant by a 'carefully monitored diet' and explain why such a diet is important for a patient undergoing dialysis treatment.

.....  
.....  
.....  
.....[3]

**[Total: 19]**



He suffers from kidney failure and his doctor recommends that he chooses dialysis rather than a kidney transplant. Joshua has the choice of haemodialysis or peritoneal dialysis.

[4]

.....[3]



[illegible]

[4]

[4]

[2]



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