**B7 revision – Higher**



DNA fingerprinting:

Select the correct statement from the following options:

1. A. Isolation of DNA from white blood cells

B. Isolation of DNA from red blood cells

C. Isolation of DNA from stem cells

1. A. Production of a protein probe with a fluorescent chemical marker

B. Production of a gene probe with a fluorescent chemical marker

C. Production of a protein probe with a radioactive marker

1. A. Addition of the probe to the protein sample

B. Addition of the DNA sample to the gel

C. Addition of the probe to the DNA sample

1. A. Use of radioactivity to detect the marker and therefore indicate the position of the DNA fragment/allele

B. Use of UV light to detect the marker and therefore indicate the position of the DNA fragment/allele

C. Use of radioactivity to detect the marker and therefore indicate the position of the protein fragment/allele

Tissue fluid:

Blood flowing through the artery is carrying glucose and carbon dioxide. As the blood passes through the capillary bed the platelet of the blood leaves the capillaries and becomes tissue fluid. The tissue fluid surrounds nearby bones and diffusion of glucose and oxygen occurs. The glucose and oxygen diffuse out of the cells and carbon dioxide and urea diffuse into the cells. The tissue fluid containing waste products then returns to the capillary bed and moves along into an artery.

Vasoconstriction: use the diagram to help explain what happens during vasoconstriction



Vasodilation: use the diagram to help explain what happens during vasodilation



Bioaccumulation:

1. What is bioaccumulation?.....................................................................................................................................
2. Why does the concentration become higher when you move higher up the food chain?..................................

...............................................................................................................................................................................

1. What is the potential hazard of bioaccumulation?...............................................................................................

...............................................................................................................................................................................

Eutrophication: put these statements into the correct order