

Year 10 Forensic Science
Biology Practise Test
Short Answer (25 marks)

Draw a typical human hair and label the three major parts. (1 ½)

How can fibre be used as legal evidence? (1)

What are the steps of a PC Reaction? Describe. (3)

What is the importance of the changes in temperature of the reaction? (1)

What is TAQ Polymerase and what is its purpose? (2)

Which is more effective (in your opinion); blood evidence or DNA profiling? Why? (2)

In DNA extraction, the three main steps are called Lysis, Precipitation and Purification. What is used in each step? (3)

What is the purpose of alcohol in the reaction? (2)

What are STRs and how are they useful in DNA profiling? (2)

Identify the three main types of fingerprints. (1½)

Describe how to distinguish one in detail. (2)

What is gel electrophoresis and when is it used? (2)

How do restriction enzymes work? (2)