GRADE 9 END TERM 1

INTEGRATED SCIENCE PRACTICAL

TIME: 1HR

QUESTION ONE (20 marks)

You are provided with test solutions **A, B, C, D, E** and an **indicator solution X**. Use the indicator to determine whether the solutions are acidic, basic, or neutral.

a) Add about 2 cm^3 of solution X to about 5 cm^3 of **lemon juice** (acidic solution) and record the observed colour change as the characteristic colour of the indicator in an acidic solution.

b) Add about 2 cm^3 of solution X to about 5 cm^3 of **wood ash solution** and record the colour change as the characteristic colour of the indicator in a basic solution.

c) Add about 2 cm^3 of solution X to 5 cm^3 of each test solution (A to E) **one at a time** and record the colour changes in the table below:

Substance	**Solution X plus**	**Observation**	**Conclusion**
Lemon juice			
Wood ash solution			
Test solution A			
Test solution B			
Test solution C			
Test solution D			
Test solution E			

d) Name **one solution** that could be used in place of: