Chapter 11: Corrosion of Metals and their Protection

All the following "answers" are for your reference only! The "best" answers are based on your actual experimental results!

Experiment 11.1: To find the conditions for rusting

4.

Test tube	Has any rust occurred? (None / a little / a lot)
A	A little
В	None
С	None
D	A lot
E	A lot
F	None

5. Air.

By boiling off the air.

6. Water.

Any water in the tube is removed by calcium chloride.

Rusting needs both air and water.

Rusting happens faster in salt solution and in acid solution.

Rusting (occurs / does not occur) if the nail is in contact with zinc metal.

Experiment 11.2: Corrosion of iron nails in gel

- 5. At the point of stress, e.g. where scratched, bent or shaped.
- 6. (a) C, E
 - (b) D, F
 - (c) Metals above iron in the Electrochemical Series.
- 7. scratched, bent or shaped, and when connected to a metal lower than iron in the Reactivity Series.