National 5 Biology

**S4 Revision Homework 1** (source – Model Paper 2, Qus 3 & 4)

**Peer Marking Scheme**

Carefully peer mark using the marking scheme below. Remember wording is very important! If you are not sure ask your teacher for advice. Give constructive feedback at the end – What did they do well? How could they improve?

Underline = essential for mark

/ = alternative

() = non-essential for mark

Qu 3 (a) Nucleus (1mk)

 (b) double stranded / double helix (1mk)

 bases named – adenine/thymine/guanine/cytosine (1mk)

 bases on each strand form complementary pairs (1mk)

 (c) hormones/ antibodies/structural/receptors

Qu 4 (a)

 Step 2

 1st box = Human gene extracted/removed/cut out

 2nd box = plasmid removed (both boxes = 1mk)

 Step 3

 Plasmid opened and human gene sealed in/inserted (1mk)

 Step 4

 Transformed plasmid inserted into bacterial cell (1mk)

 (b) insulin / growth hormone (1mk)

 (c) by a virus /vector