National 5 Biology

**S4 Revision Homework 5**  (Model 1/2, Qu 1 & Int 2 2004 Qu 7 & Model 3 Qu 3)

**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 1.** (a)phospholipid and protein

 (b) DNA /mRNA/ nucleic acid

 (c) A

 F

 C

 E

**Qu 2.**

1. (i) Slide A = cells would swell/expand/get bigger/burst/haemolyse/water moves in

 Slide C = cells would shrink/ shrivel/get smaller/ be crenated water moves out

(ii) osmosis

**Qu3.**

 (a) They speed up chemical reactions in living cells (without being altered/changed)

1. High temperature / extremes of pH

**Qu 4.**

1. (i) X = cell wall Y = plasmid

(ii) Z = site of protein synthesis

1. **Difference**

Walls made of different substances

OR fungi have organelles/nucleus/mitochondria but bacteria do not

**OR** bacterial cell has a plasmid/circular DNA which a fungal does not

**Similarity**

Both have cell walls/ cytoplasm/ genetic information/ membranes/ ribosomes

1. To prevent contamination with unwanted microbes / to ensure sterility