

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Student Number: \_\_\_\_\_

1. Using the predicates:

$$B(x) = \text{"x is a bee"} \quad F(x) = \text{"x is a flower"} \quad L(x, y) = \text{"x likes y"}$$

write each of the following statements in predicate logic. Your formulæ should reflect the statements as they are written; do not re-write the statements before translating them into logic.

(a) Some bees like some flowers.

ANSWER:

(b) Every bee likes some flowers.

ANSWER:

(c) There are some flowers that all bees like.

ANSWER:

(d) No bee hates (that is, does not like) all flowers.

ANSWER:

2. Two of the statements in Question 1 above mean the same thing. Which two?

ANSWER: