(c) **[3 marks] Logic.**

Let A be the set of all animals. We define the following predicates:

$$IsCute(a) : \text{“}a \text{ is cute”}, \quad \text{where } a \in A$$
$$CanFly(a) : \text{“}a \text{ can fly”}, \quad \text{where } a \in A$$
$$Eats(a, b) : \text{“}a \text{ eats } b\text{”}, \quad \text{where } a, b \in A$$

Translate each of the following statements from symbolic logic into English or vice versa.

(i) $\exists a \in A,\ IsCute(a) \vee CanFly(a)$

At least one animal is either cute or it can fly.

(ii) No animal that can fly is cute.

$\forall a \in A,\ CanFly(a) \Rightarrow \neg IsCute(a)$

(iii) Every animal that can fly eats at least one animal. (The animal eaten can be different for each flying animal.)

$\forall a \in A \quad \exists b \in A,\ CanFly(a) \Rightarrow Eats(a, b)$