## **Social Behaviour**

14.	(a)	The honey bee (Apis mellifera) is a social insect that lives in colonies.
		The queen is the only female in a colony that reproduces. Other females are workers that collect food, maintain the colony and care for the developing offspring.
		Explain the advantage to the worker bees of caring for the offspring of the queen.
12	. Wi	nich of the following is an example of kin selection?
	Α	Worker leafcutter ants raising young ants in their colony.
	В	A vampire bat regurgitating blood to feed an unrelated bat.
	С	A dominant lion feeding on a zebra kill before its offspring.
	D	A young orangutan spending a long period in parental care to learn complex social behaviours.
Α	Wr	ite notes on primate behaviour.
(c)		of the wild dogs in a pack are related. Usually only one dominant ale has offspring which other members of the pack will feed.
	Expl	ain why pack members feed offspring which are not their own.  1
19		returning to their roost after feeding, vampire bats may regurgitate blood to feed unrelated individual in the same social group.
	Th	is is an example of
	Α	mutualism
	В	altruism
	С	social hierarchy
	D	kin selection.

В	Write notes on social behaviour in animals under the following headings:	
	(i) social hierarchy and cooperative hunting;	4
	(ii) social insects.	4