

2024 Bi H1 Q24

Section: Sustainability and Interdependence

Topic: Social Behaviour

Question Summary:

The question asks which behaviours are carried out by drone bees from the list: fertilising eggs, collecting pollen, and waggle dances.

Worked Solution:

- Drone bees are male members of the colony.
- Their sole role is to mate with a queen to fertilise her eggs.
- They do not collect pollen (worker bees perform this task).
- They do not perform waggle dances (also done by workers to communicate food source locations).

Therefore, drones only carry out fertilising eggs.

Final Answer: **A** (Fertilising eggs only).

Revision Tips:

- Workers: sterile females, gather food and maintain hive.
- Queen: reproduces to maintain colony population.
- Drones: males that fertilise eggs, die shortly after mating.