

What is entomology

Entomology is the study of insects and their relationship to humans, the environment, and other organisms.

Entomology has an importance in :

-The study of insects serves as the basis for developments in biological and chemical pest control

-human/ animal health (medical entomology)

-criminology,(criminal insects) and forensics

-some are plant pests such as (grasshopper) and some of which are of economic importance such as (honey bee)

Frist of all we need to take a step backward to understand Entomology, we need to realize and know the meaning of arthropod. An Arthropoda is an invertebrate animal having an exoskeleton (external skeleton), a segmented body, and paired jointed appendages.

Phylum Arthropods includes:

class insects الحشرات, class arachnids العناكب والعقارب, class myriapoda
مخليات الارجل, class and crustacea القشريات class onychophora
ثلاثيه الفصوص tribolita

Characters of Arthropoda

1. Largest phylum in the animal kingdom
2. Body has legs there may be 3 pairs, 4 pairs, 5 pairs, many pairs.
3. Body is triploblastic. (endoderm, mesoderm and ectoderm)
4. Bilaterally symmetrical.
5. Body is covered with chitinous exoskeleton.
6. Digestive system is complete
7. Respiration takes place by general body surface or gills (in Crustaceans) or trachea (in insects) or book lungs (Arachnida).
8. Circulatory system is of open type

Characteristics of Insect Class Insecta

1. These are tracheated arthropods.
2. It possesses 3 pairs of jointed legs.
3. Body is segmented.
4. Insect body is divided into 3 regions viz., head, thorax and abdomen
5. It possesses a pair of compound eyes & antennae.
6. Two pairs of wings are present in adult stage.