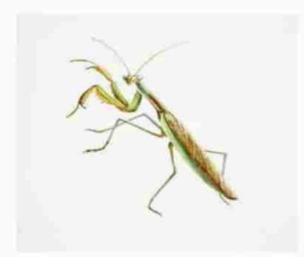
Dictyoptera (Cockroaches and Mantids)





Submitted By :- Jayant Yadav, C.C.S.H.A.University, Hisar, Haryana

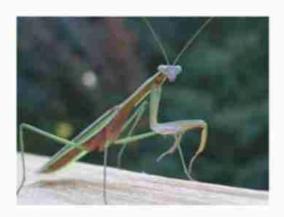
General Characters

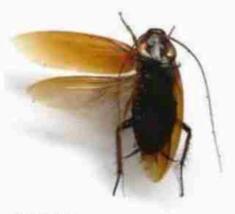
Section 19 Section 2 Se

Mead : Usually hypognathous

Antennae : Filiform or setaceous

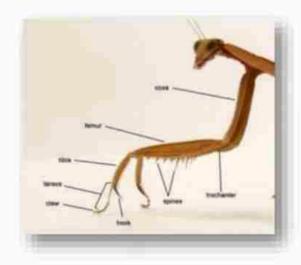
Mouth Parts: Chewing type





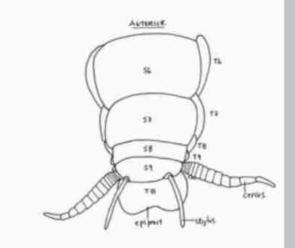
- Thorax: Prothorax usually larger than meso and metathorax
- Wings: Forewing leathery tegmina; hindwings membranous and folded, fanlike
- Legs: Forelegs are Raptorial in Mantids and Cursorial in Blattidae





- Male genitalia is asymmetrical.
- On 9th segment pair of styli.
- Cerci many segmented.
- Cerci>Styli







SUB-ORDERS

BLATTARIA

- Polyphagidae
- Blaberidae
- Blattidae
- · Epilampridae

MANTODEA

- Amorphoscelidae
- Eremiaphilidae
- Hymenopodidae
- Mantidae
- Empusidae

BLATTARIA

- Head is not mobile in all directions.
- Pronotum is shield like and covers the head.
- Body is flattened and dark coloured .
- Antennae long and setaceous.
- Legs are cursorial type.
- Ootheca is chitinous.
- They are omnivorus.
- Common family: Blattidae: eg. American cockroach

MANTODEA

- Head is mobile in all directions.
- Pronotum is elongated and do not cover the head.
- Body is elongated sometimes cylindrical.
- Antennae long, setaceous and may be filiform in some species.
- Legs are raptorial type.
- Ootheca is not chitinous.
- They are carnivorous.
- Common family: Mantidae: eg. Preying mantids

Blattaria

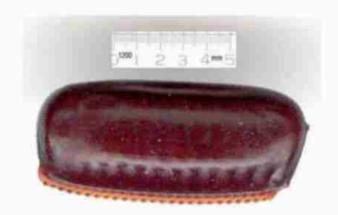
Number of Species	4,000
Common names	Roaches, cockroaches
Typical habitats	- damp, warm dark areas - tropical forests
Distinguishing characteristics	-No ovipositor -No saltatorial hind legs
Other features	-ootheca used in oviposition



Family: Blattidae

- Antennae long and setaceous
- Forewings prominently tegmina
- Legs similar to one another
- Tarsi 5-segmented
- Ovipositor reduced and concealed under the 7th abdominal sternum
- A pair of many segmented cerci.
- They are mainly household pests.
 - ex. American cockroach, Periplanela americana German cockroach, Blatella germanica

Fig :- Ootheca of Cockroach





Mantodea

Number of Species	2.300	
Common names	Mantids	
Typical habitats	- arboreal	
Distinguishing characteristics	-Predatory adaptations	
Other features	-ootheca used in oviposition	



Family: Mantidae

- Usually large insects having elongated and cylindrical body.
- Forelegs modified as raptorial with spines on inner-ventral side of fore-femurs.
- Antennae comparatively shorter and filiform.
- Pronotum is elongated and do not cover the head.
- Nymphs are cannibalistic.
- Mimic leaves and flowers.
- Predators on crop pests.
 - ex. Praying mantis, Mantis religiosa.

Fig :- Ootheca of Praying Mantis



