

Lecture 5 : Arachnida Class

العنكبوتيات

General Characterizations :

- 1 – All members of Arachnida are terrestrial and segmented body .
- 2 – They have tough exoskeleton and jointed walking legs.
- 3 – Body divided into two segments (Cephalothorax and abdomen) .
- 4 – Four Pairs of legs , one pair attached in each segment of cephalothorax region .
- 5 - Most Arachnida are predators .

Scorpion :

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- 1 – Predator arachnida have eight legs with pair grasping pincer .
- 2 – It has narrow segmented tail , forward curved over the back and always end with stinger .

3 - Scorpion live in desert mainly but adapted to very wide range of environmental condition .

4 - Scorpion are 2500 species , found in all continents except Antarctica .

5 - Scorpions are prey on insects and other invertebrates

6 - The venoms sting is used for offensive and defense .

7 - Muscles (striated muscles) attached to the inner wall of the cuticle .





Spider :

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- 1 . 46700 species of spider found in arachnida .
- 2 . Spider have eight legs not like insect have six legs .
- 3 . It has chelicera to inject venom .
- 4 . All spiders are predator insect .
- 5 . Use silk to kill prey , capture prey and quickly inject venom . others wrapping silk to immobilize their victims .
- 6 . Body length of spider range from 0.5 \ 90 mm .
- 7 . Female spiders are larger than males (small and light)
- 8 . Spider produce silk thread { Orb. wheel shaped } that found in gardens , fields and forests .

9 . Spider widow or black widow or red black

Female completely black .



Ticks :

1 - Are external Parasites , living by feeding blood of mammals , birds , and sometimes reptiles and amphibians

2 - There are two families of ticks for domestic animals :

A ; Argasidae B : Ixodidae

3 – Adult ticks 3 - 5 mm in length .

4 – Tick widely distributed around the world especially in warm humid climate .

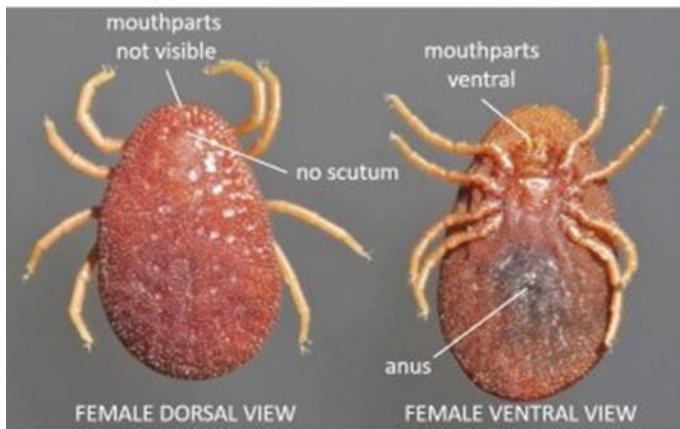
5 – Cephalothorax and abdomen of ticks are completely fused .

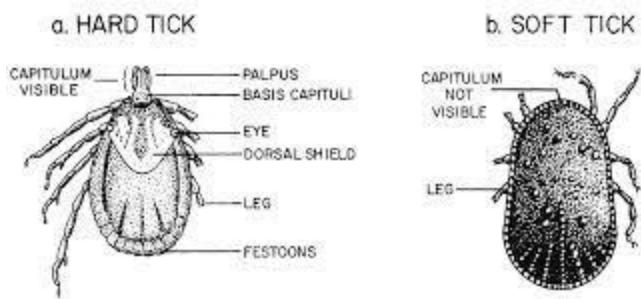
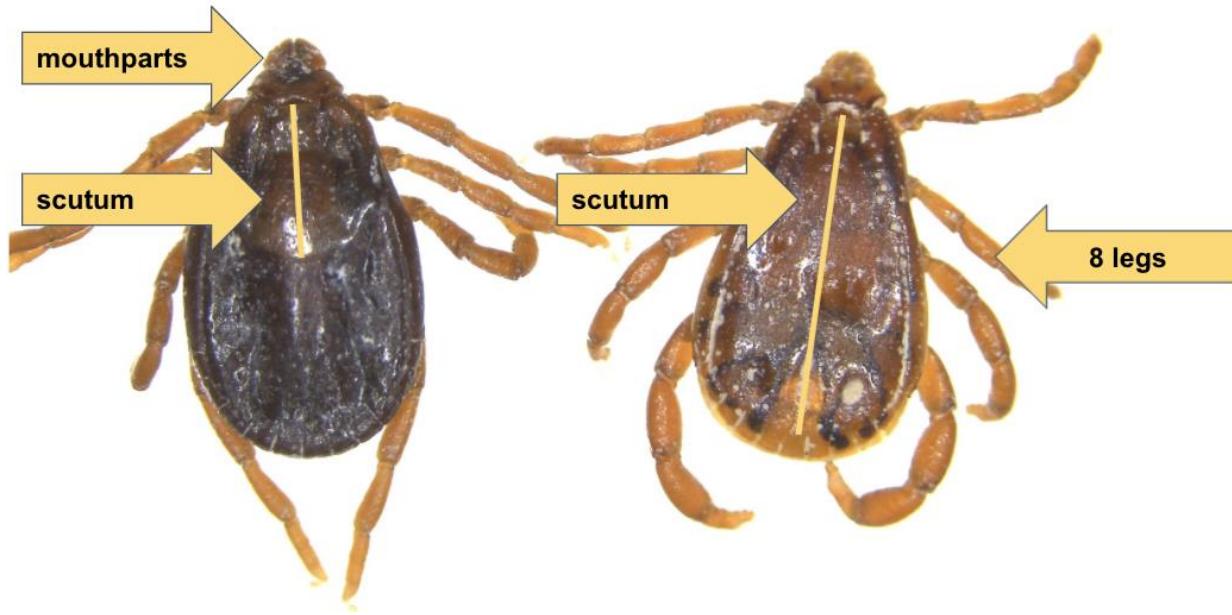
6 - Hard tick have shield on the dorsal surface known as scutum .

7 - Soft ticks blow up like balloon when feed blood because they dont have scutum .

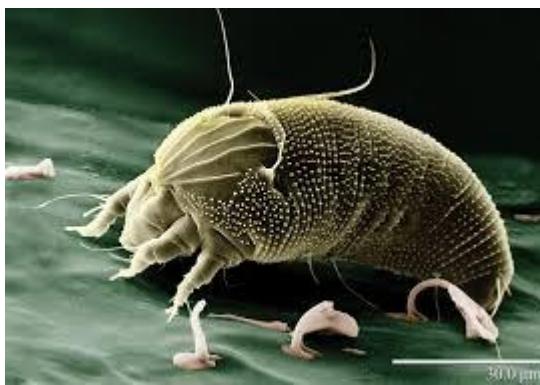
8 -- Hard ticks have scutum so they are not able to take blood as much as soft ticks .

9 - Ticks have four life stages ; Egg , six legged larvae , eight legged nymph , Adult .





Mites الحم



Mites

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1 - Small tiny arthropoda (microscopical) in size 250 to 750 micron .

- 2 . It has eight legged , unsegmented body .
- 3 . Mites are parasite for human , Domestic animals and plants . Burrow tunnel by legs inside the skin to lay eggs at the end of tunnel .
- 4 . Cause intense itching especially at night produce skin rash , blisters due to infection (infestation) by *Sarcoptes scabie* .
- 5 . This disease called Scabie for human and Mange for animals .

