Zoo103 Assignment solution

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Question:-

How spiders are morphologically different from scorpions?

Answer:-

Spiders and scorpions are considered to be two of the most feared animals. Both of these creatures are classified as arachnids and, along with mites, ticks and harvestmen, possess eight legs.

Despite the similarities, there are significant differences between spiders and scorpions.

Difference between spiders and scorpions:-

Spiders:-

1. Spiders have a pair of fangs that they use to inject venom.

2. Spiders lack pinchers of any kind.

3. Spiders have spinneret which is used to produce silks & make webs.

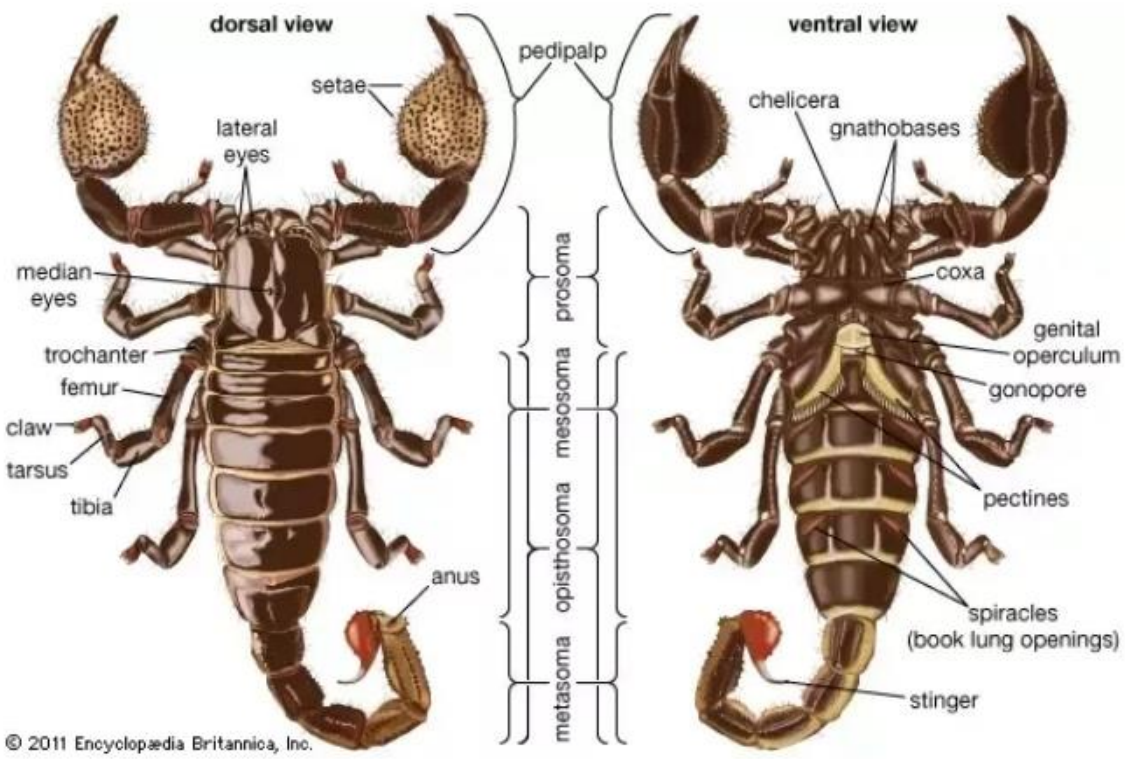
Scorpions:-

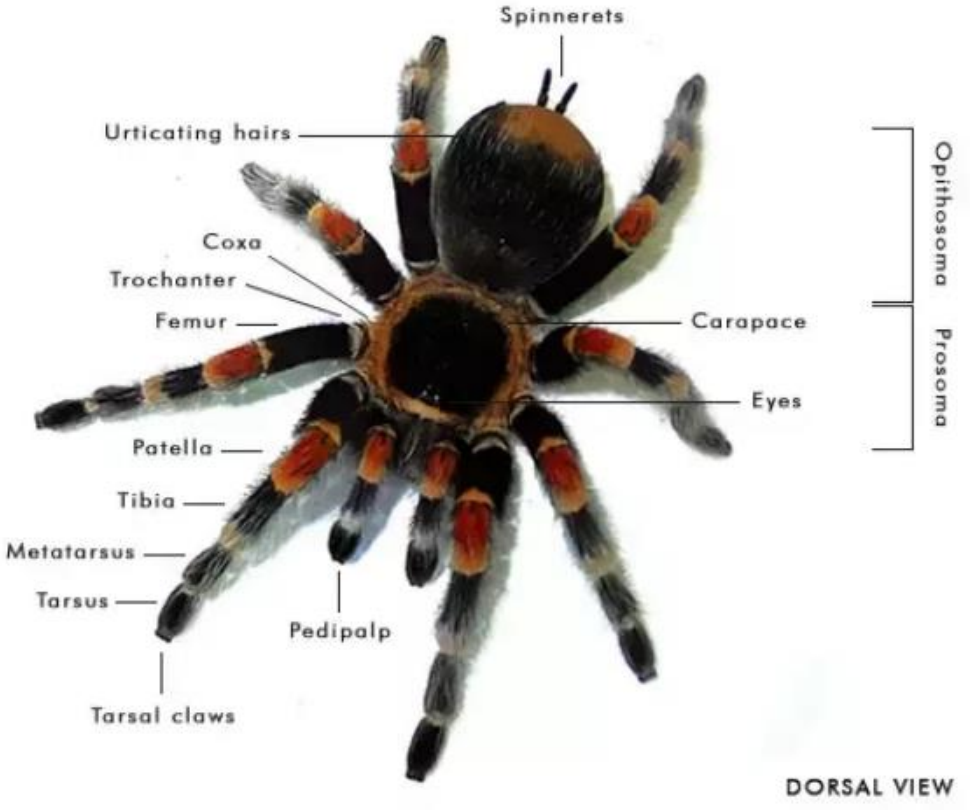
1. Scorpions lack fangs but instead have a stinger located at the end of their tail to inject venom.

2. Scorpions also have a pair of pinchers which are modified Pedi palps.

3. Scorpions do not posses any spinnerets so no silk production takes place, hence no webs.

Diagram:-


dorsal view
ventral view
pedipalp
setae
lateral eyes
median eyes
trochanter
femur
claw
tarsus
tibia
anus
chelicera
gnathobases
coxa
genital operculum
gonopore
pectines
spiracles (book lung openings)
stinger
prosoma
mesosoma
opisthosoma
metasoma
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Spinnerets
Urticating hairs
Coxa
Trochanter
Femur
Carapace
Eyes
Patella
Tibia
Metatarsus
Tarsus
Pedipalp
Tarsal claws
Opithosoma
Prosoma
DORSAL VIEW