



# **Invertebrates 2**

**Zoo357**

**(Practical Part)**

**First semester**

**Prepared by**

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**Faculty of Science**

**Zoology Department**

**2023-2024**

# **Book data**

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**Faculty: Science**

**Group: Third**

**Division: Zoology & Chemistry**

**Publication date: First semester**

**2023-2024**

**Number of pages: 25**

Kingdom: Animalia

Subkingdom: Metazoa

Phylum: Arthropoda

Subphylum: Branchiata

Class: Crustacea

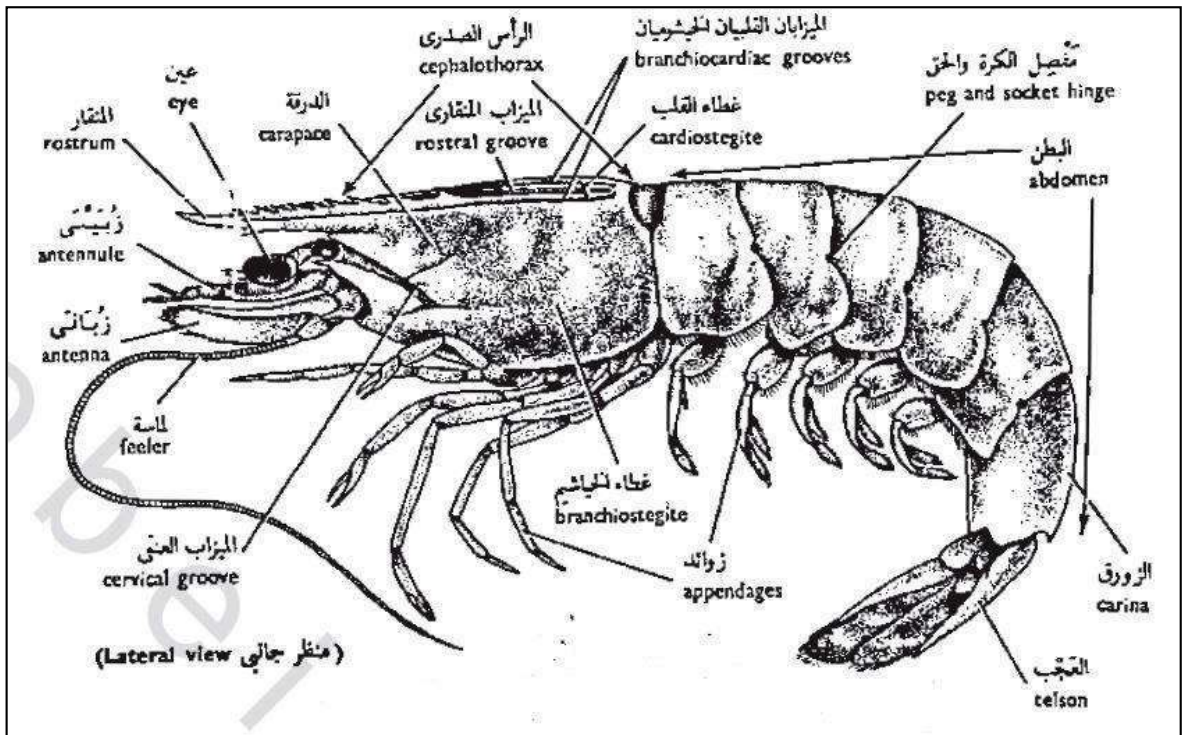
Subclass: Malacostraca

Order: Eucarida

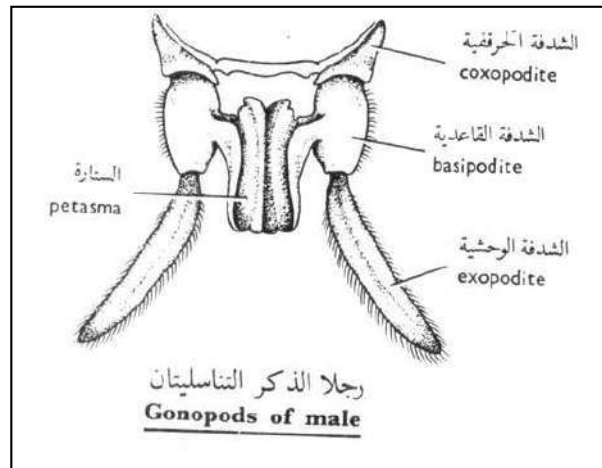
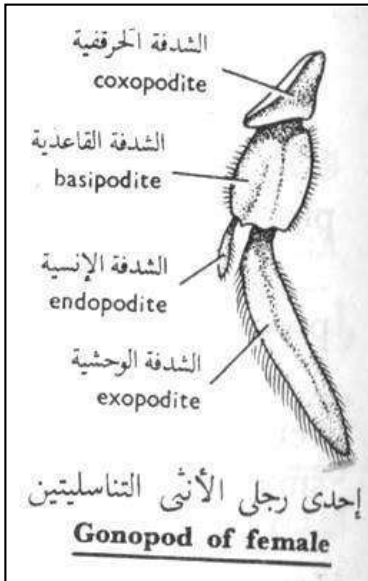
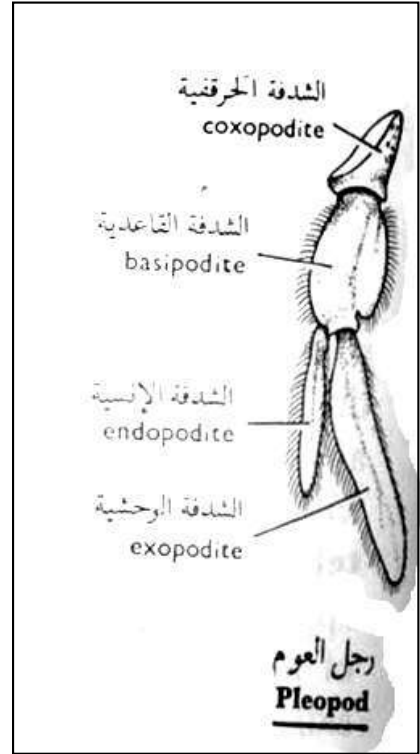
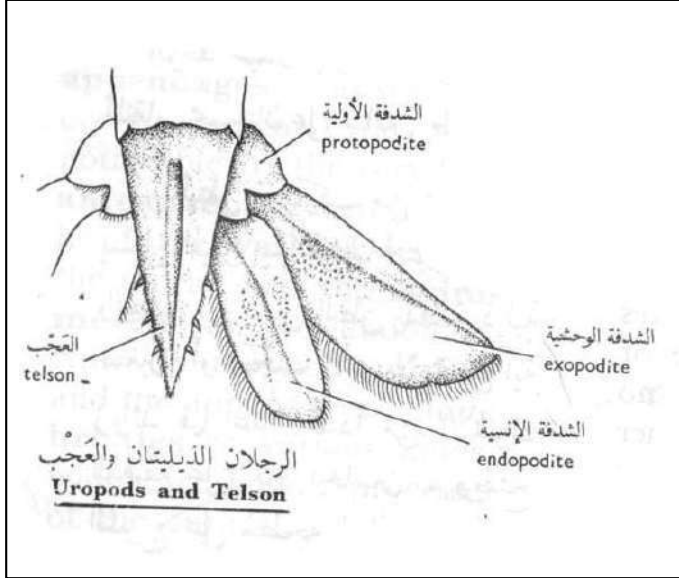
Suborder: Decapoda

Family: Macrura

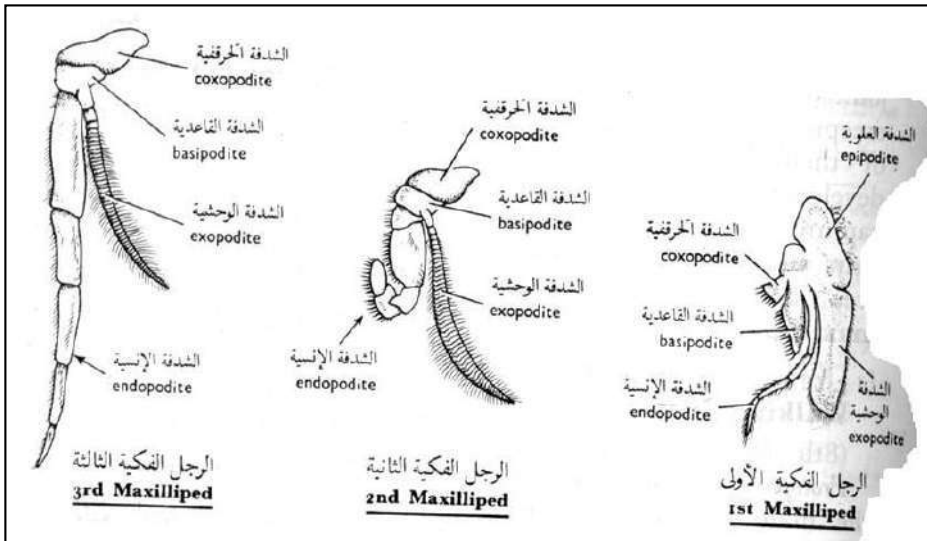
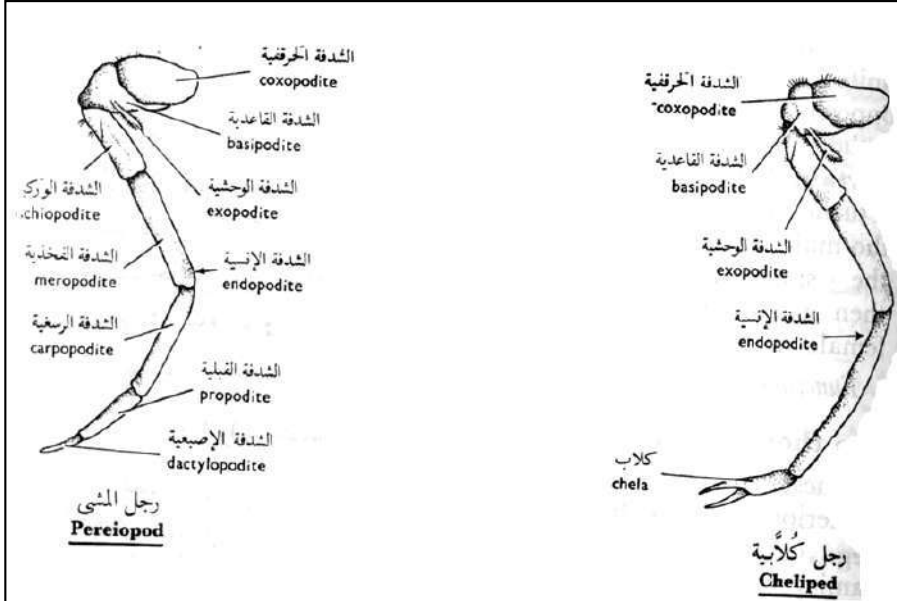
e.g.: *Penaeus japonicus*.



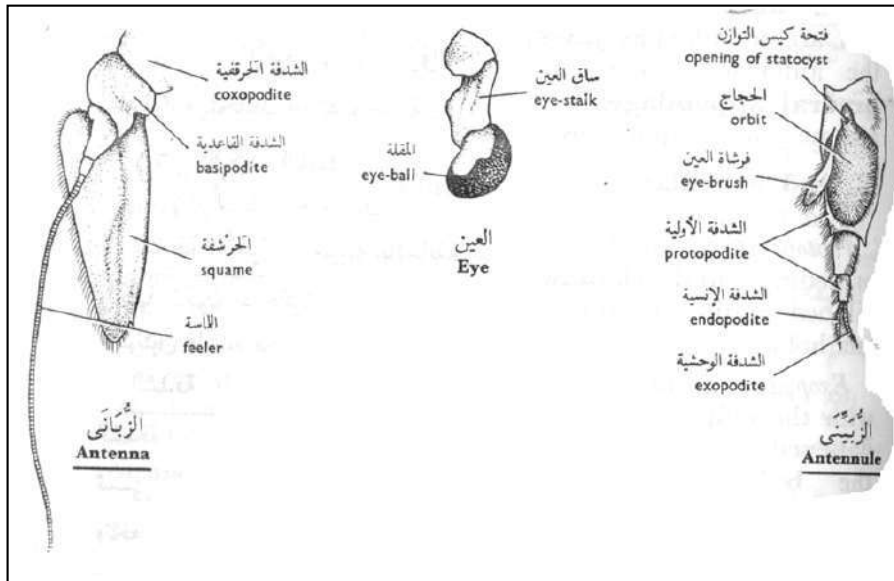
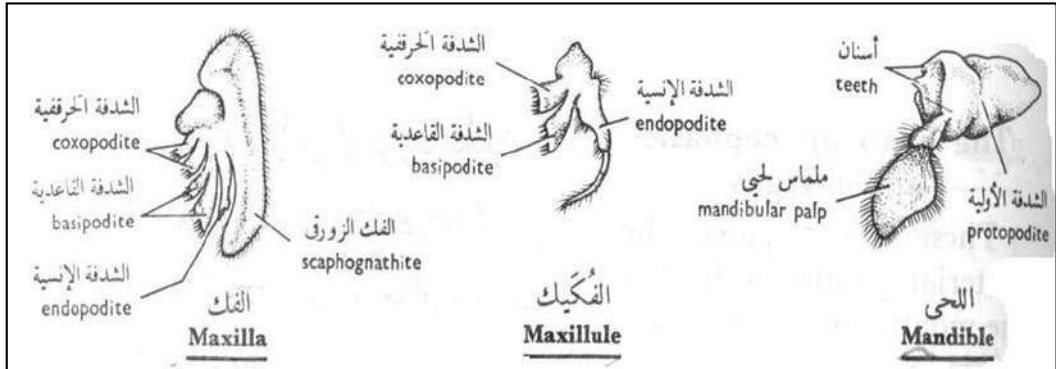
## Abdominal appendages



## Thoracic appendages



## Cephalic appendages



Kingdom: Animalia

Subkingdom: Metazoa

Phylum: Arthropoda

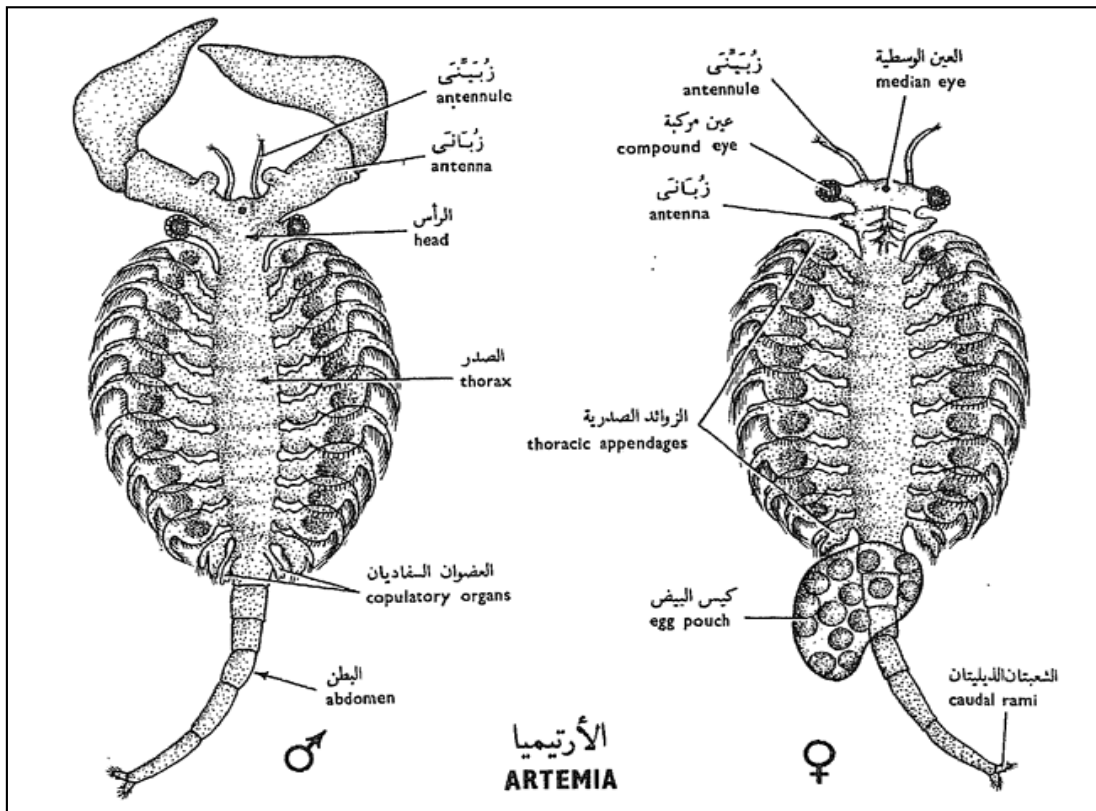
Subphylum: Branchiata

Class: Crustacea

Subclass: Branchiopoda

Order: Anostraca

e.g.: *Artemia* sp.



Kingdom: Animalia

Subkingdom: Metazoa

Phylum: Arthropoda

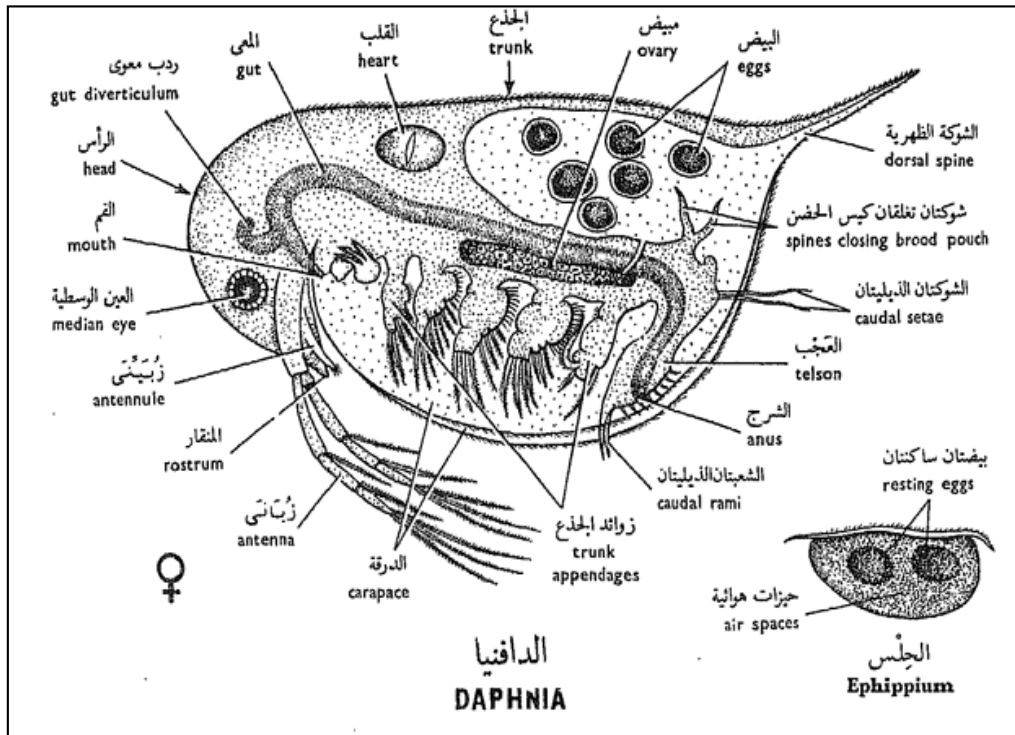
Subphylum: Branchiata

Class: Crustacea

Subclass: Branchiopoda

Order: Cladocera

e.g.: *Daphnia* sp.





Kingdom: Animalia

Subkingdom: Metazoa

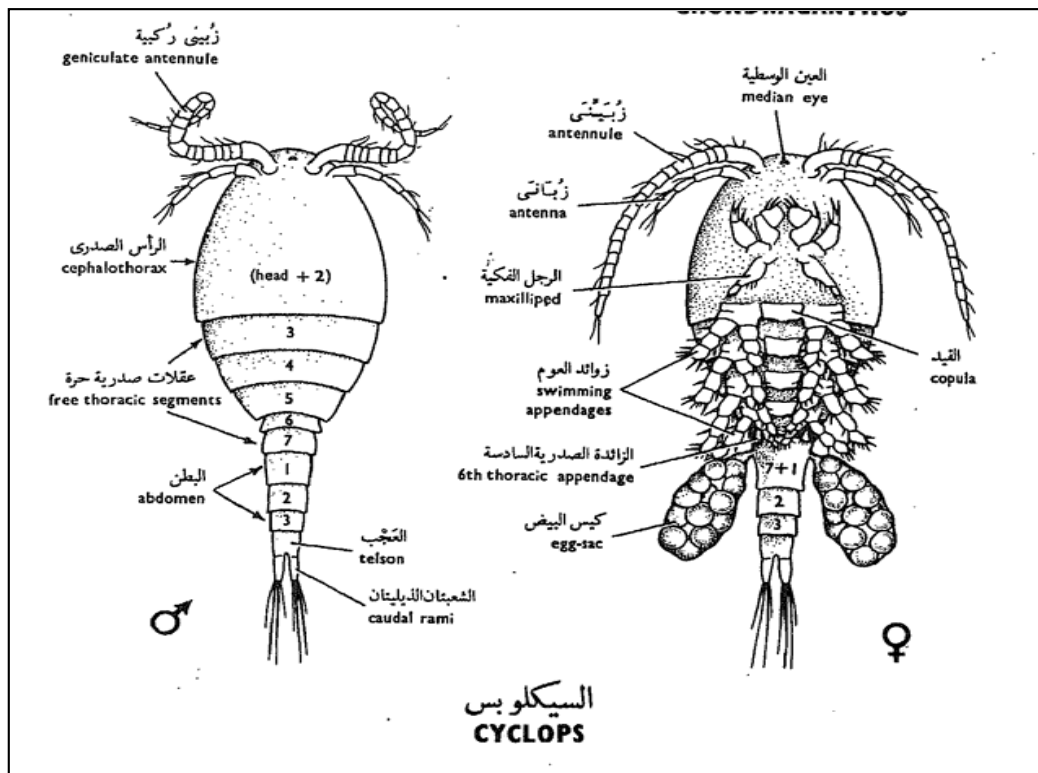
Phylum: Arthropoda

Subphylum: Branchiata

Class: Crustacea

Subclass: Copepoda

e.g.: *Cyclops* sp.





**Kingdom: Animalia**

**Subkingdom: Metazoa**

**Phylum: Arthropoda**

**Subphylum: Branchiata**

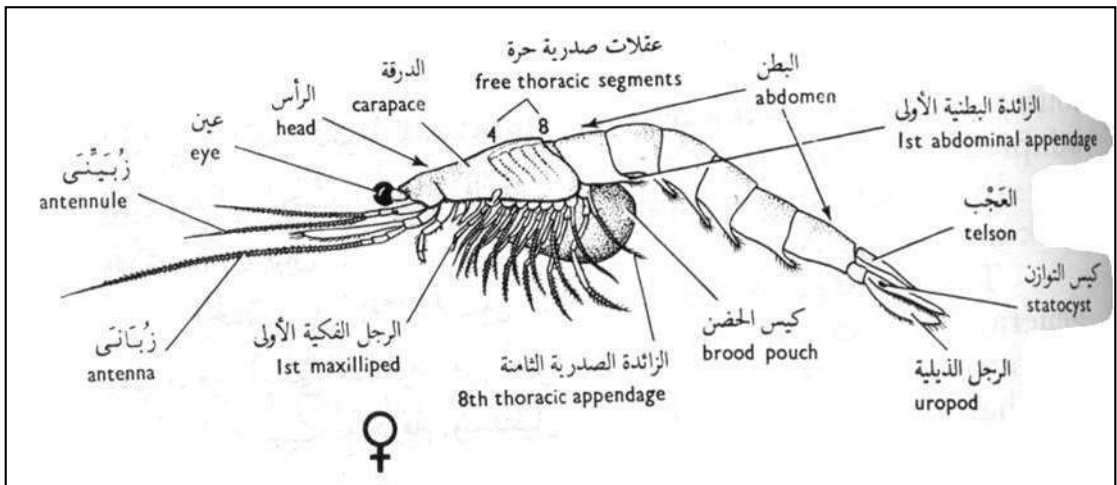
**Class: Crustacea**

**Subclass: Malacostraca**

**Order: Peracarida**

**Suborder: Mysidacea**

**e.g.: *Mysis* sp.**





**Kingdom: Animalia**

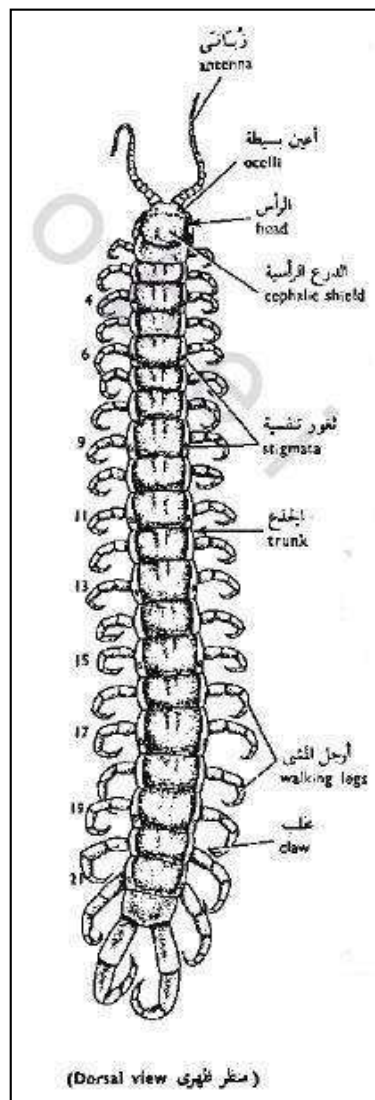
**Subkingdom: Metazoa**

**Phylum: Arthropoda**

**Class: Myriapoda**

**Subclass: Chilopoda**

**e.g.: *Scolopendra morsitans*.**



Kingdom: Animalia

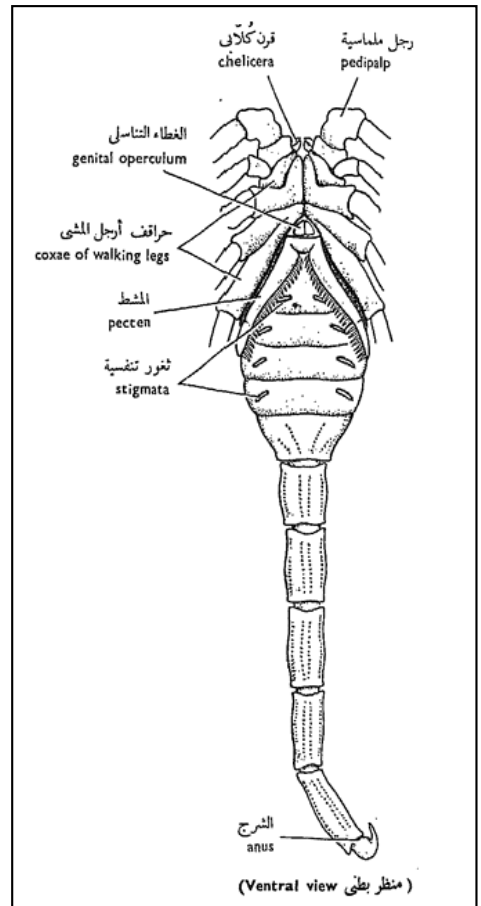
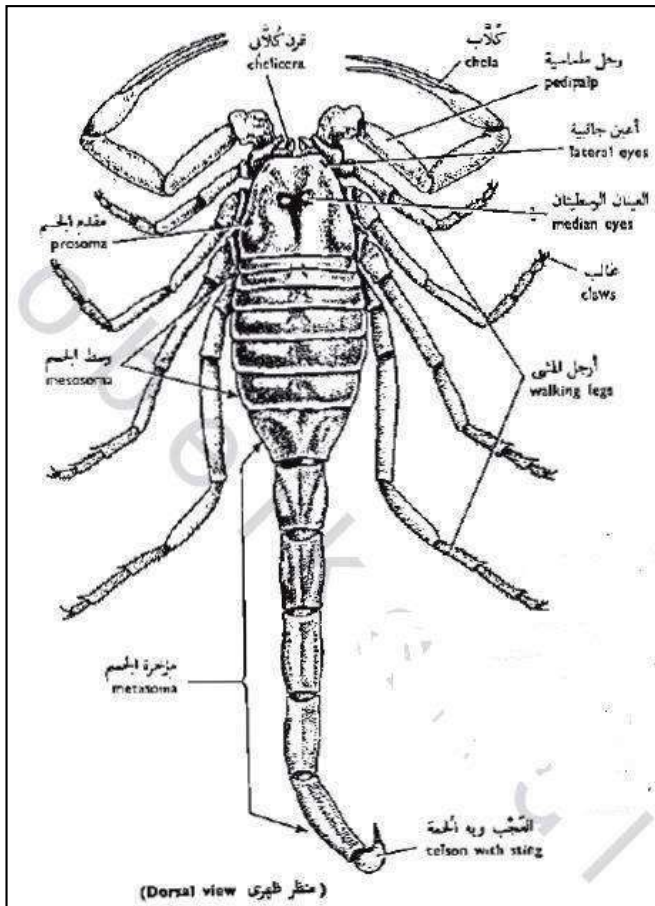
Subkingdom: Metazoa

Phylum: Arthropoda

Class: Arachnida

Order: Scorpionidea

e.g.: *Buthus quinquestriatus*.



Kingdom: Animalia

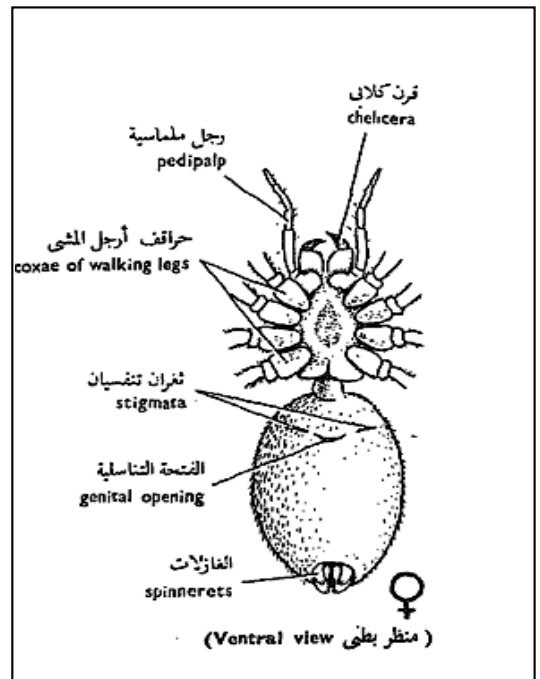
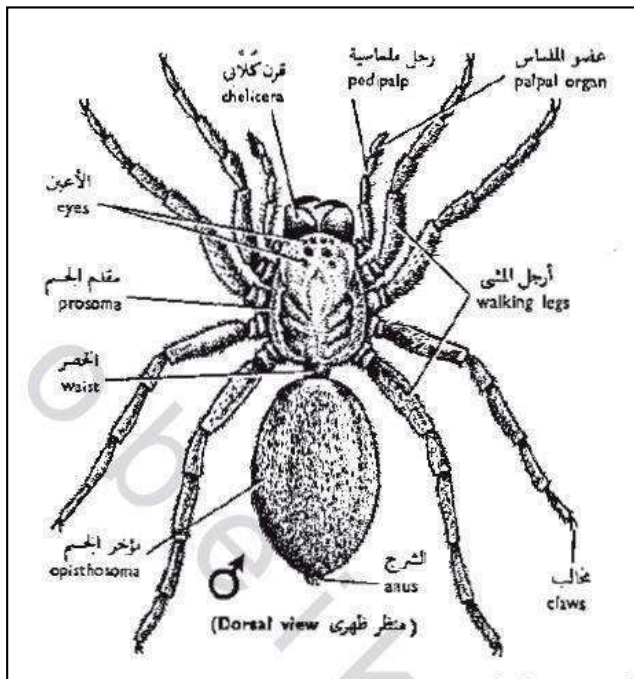
Subkingdom: Metazoa

Phylum: Arthropoda

Class: Arachnida

Order: Aranida

e.g.: *Lycosa ferox*.



Kingdom: Animalia

Subkingdom: Metazoa

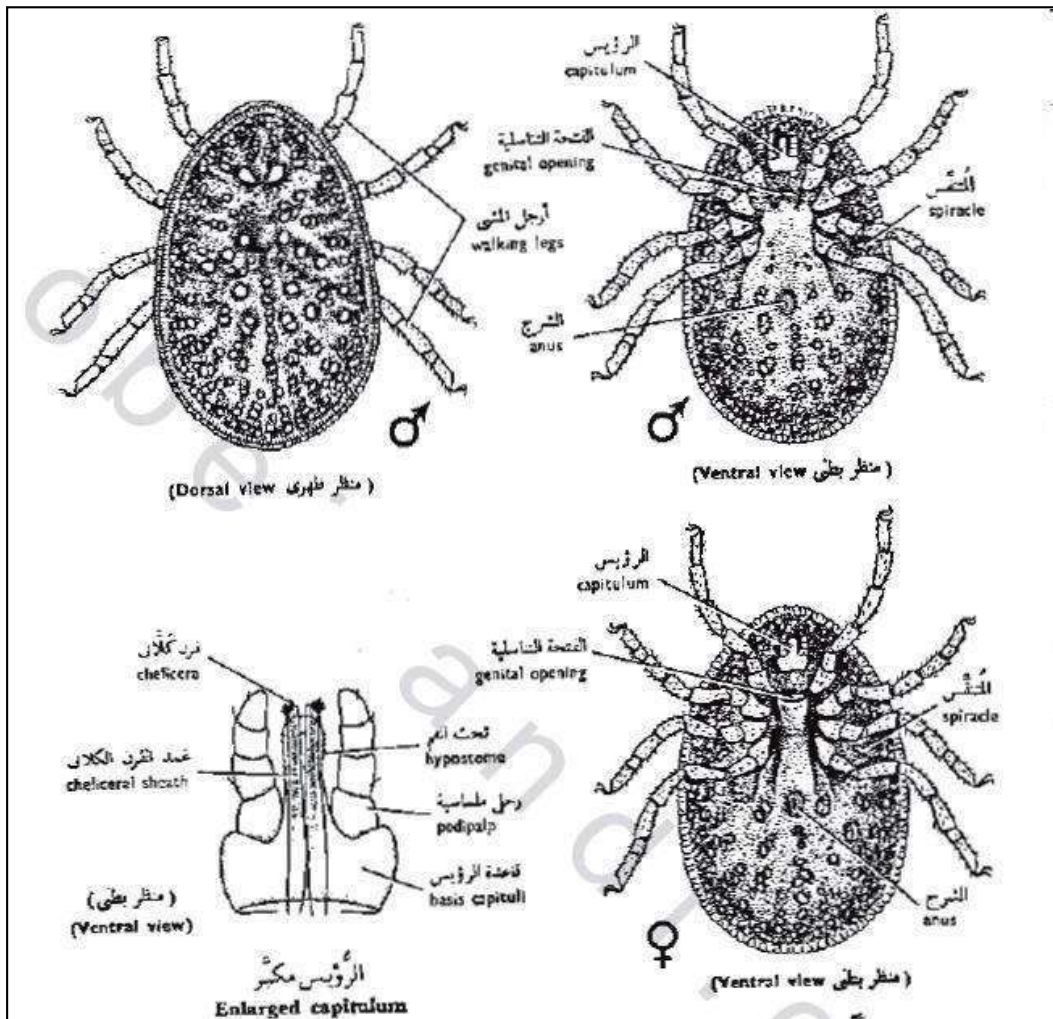
Phylum: Arthropoda

Class: Arachnida

Order: Acarina

Family: Argasidae

e.g.: *Argas persicus*.





Kingdom: Animalia

Subkingdom: Metazoa

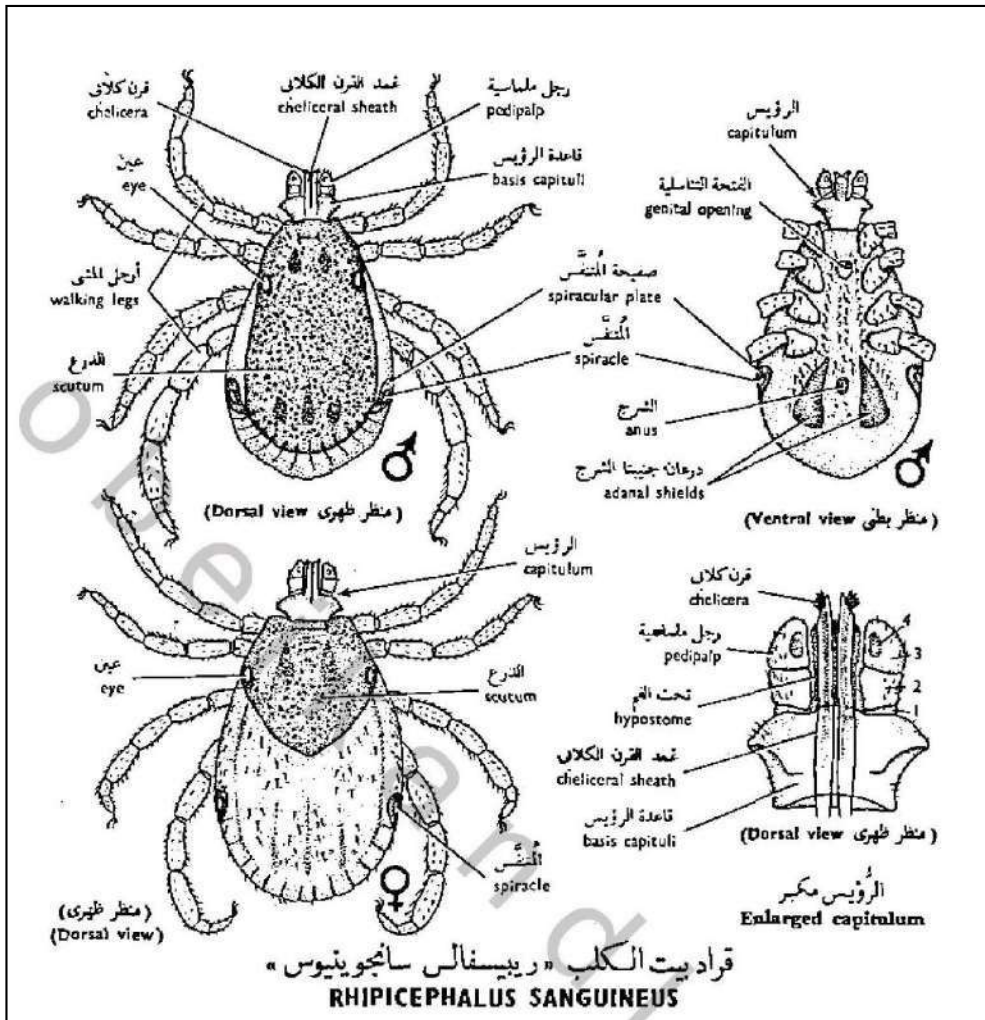
Phylum: Arthropoda

Class: Arachnida

Order: Acarina

Family: Ixodidae

e.g.: *Rhipicephalus sanguineus*.



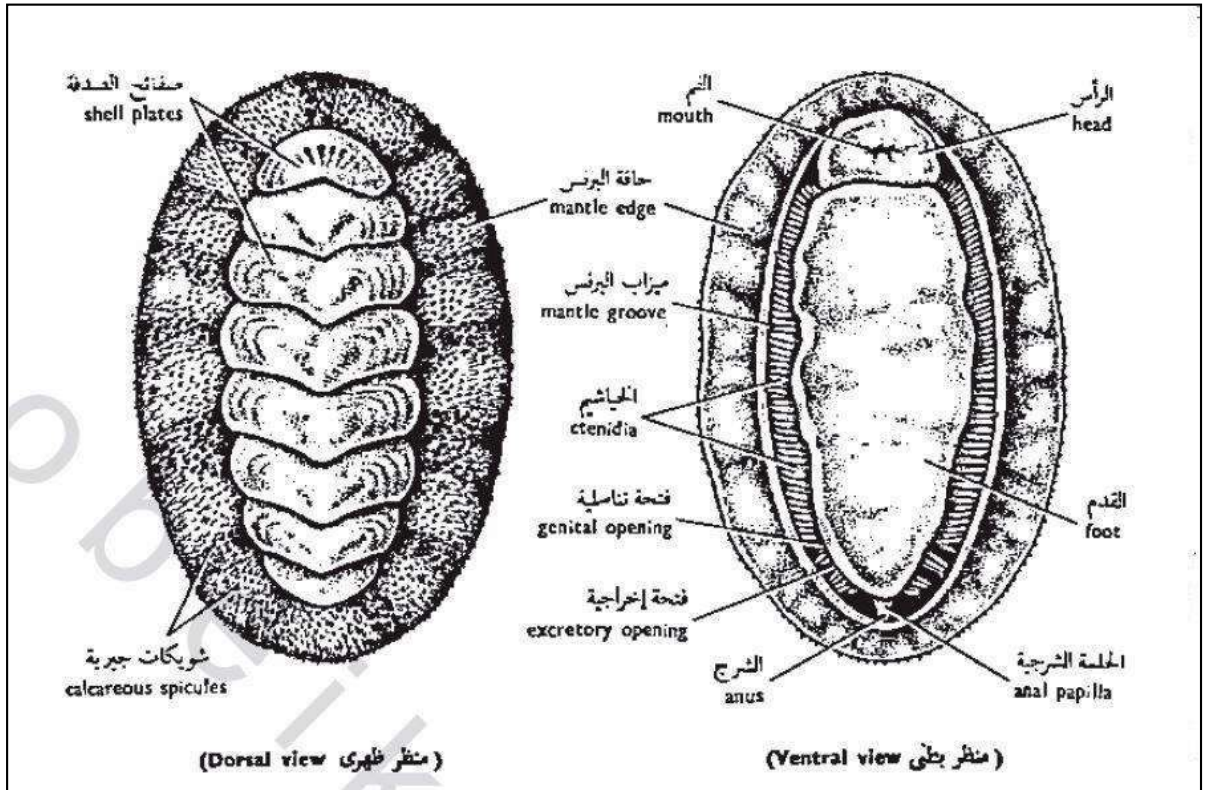
Kingdom: Animalia

Subkingdom: Metazoa

Phylum: Mollusca

Class: Plachophora

e.g.: *Acanthochiton spinigera*.



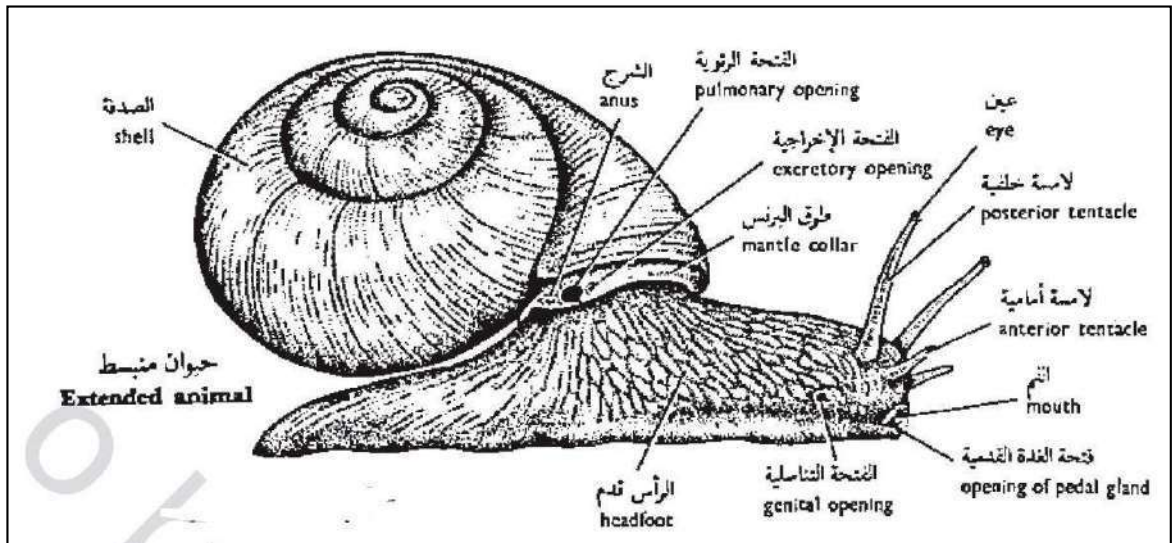
Kingdom: Animalia

Subkingdom: Metazoa

Phylum: Mollusca

Class: Gastropoda

e.g.: *Eremina desertorum*.



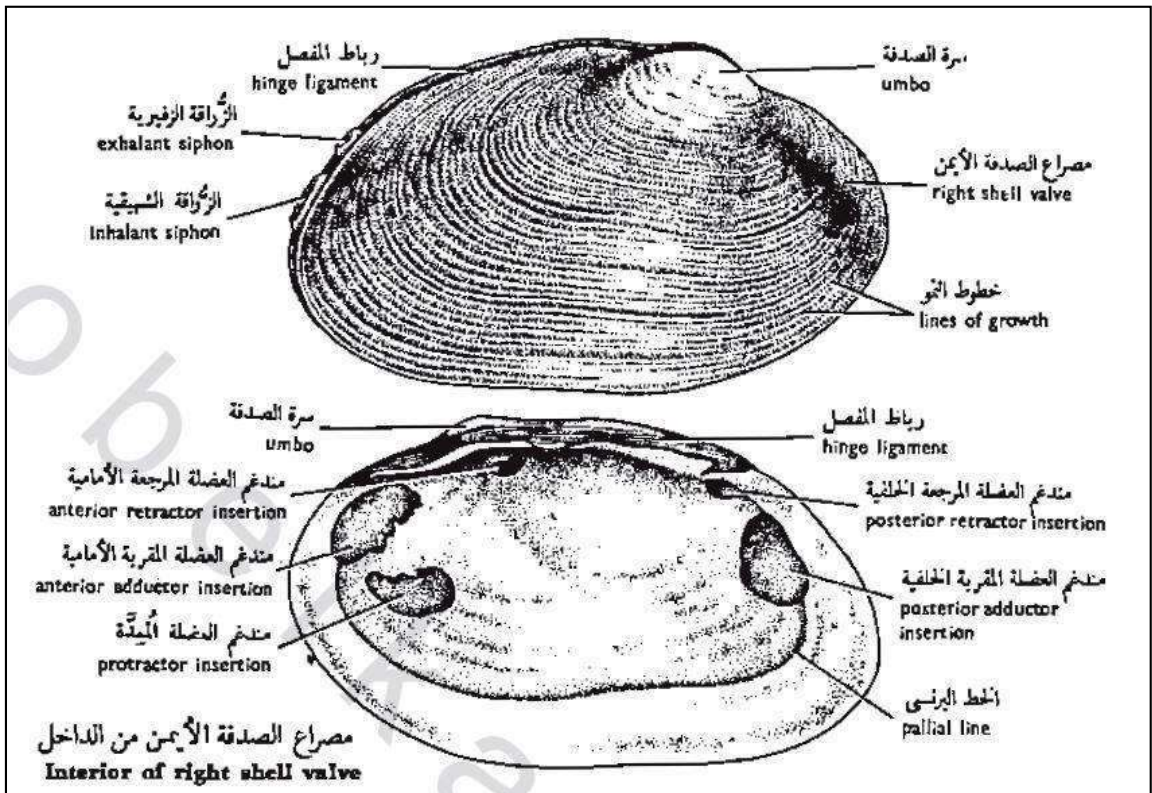
Kingdom: Animalia

Subkingdom: Metazoa

Phylum: Mollusca

Class: Pelecypoda

e.g.: *Anodonta rubens*.





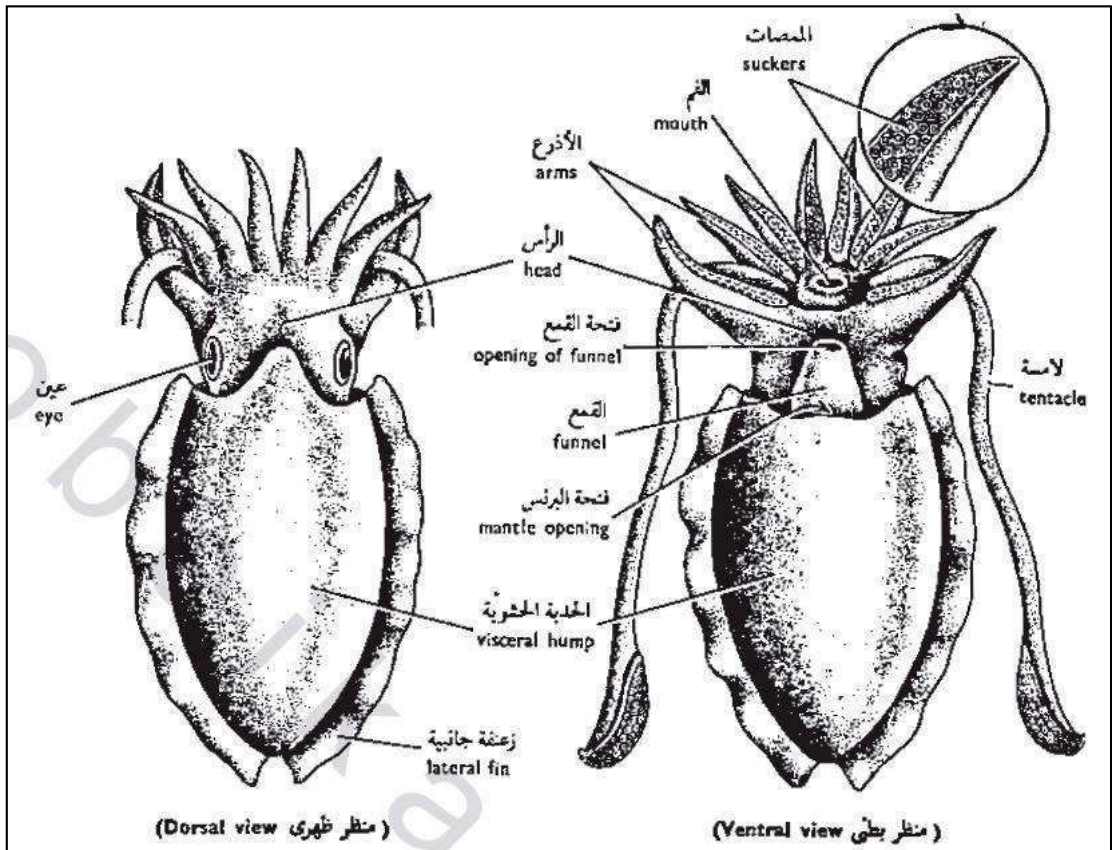
Kingdom: Animalia

Subkingdom: Metazoa

Phylum: Mollusca

Class: Cephalopoda

e.g.: *Sepia savignyi*.



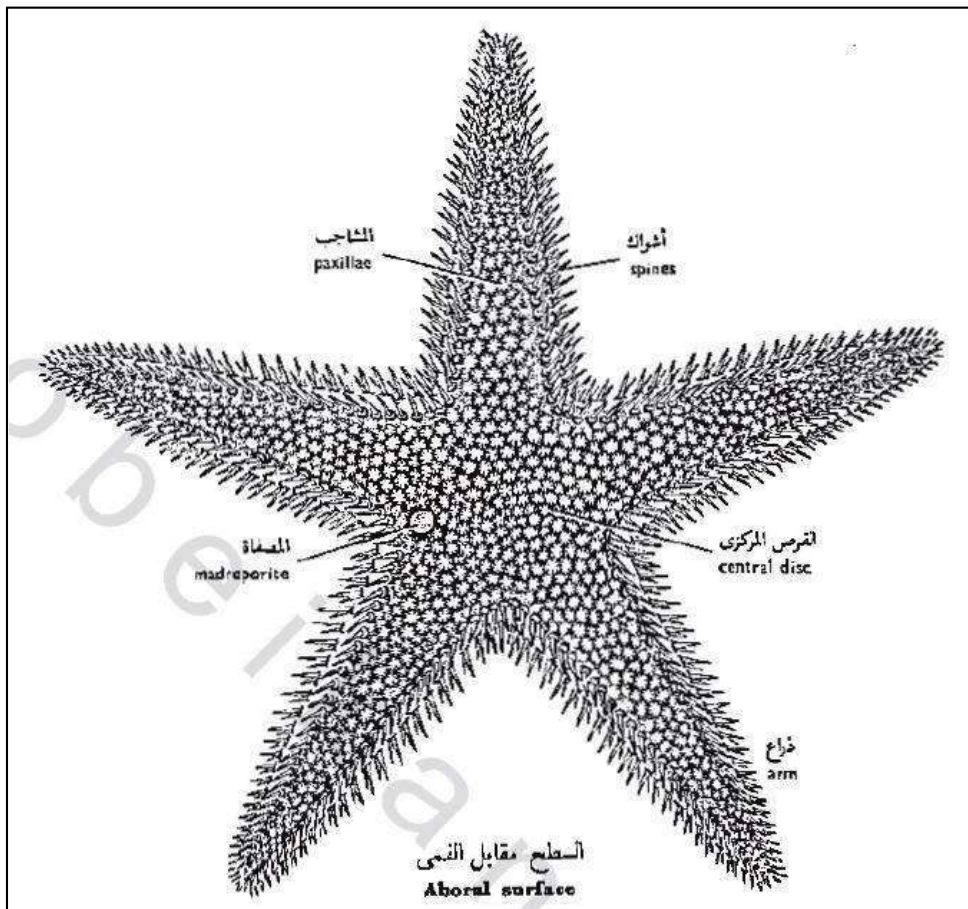
**Kingdom: Animalia**

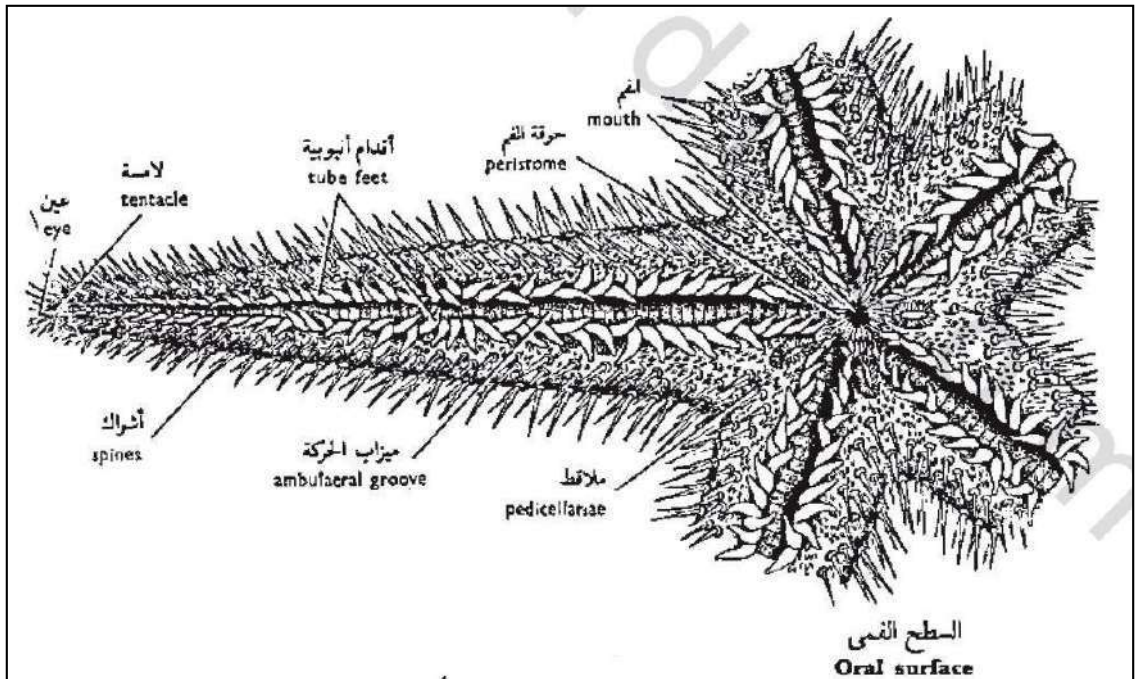
**Subkingdom: Metazoa**

**Phylum: Echinodermata**

**Class: Asteroidea**

**e.g.: *Astropecten relitaris*.**





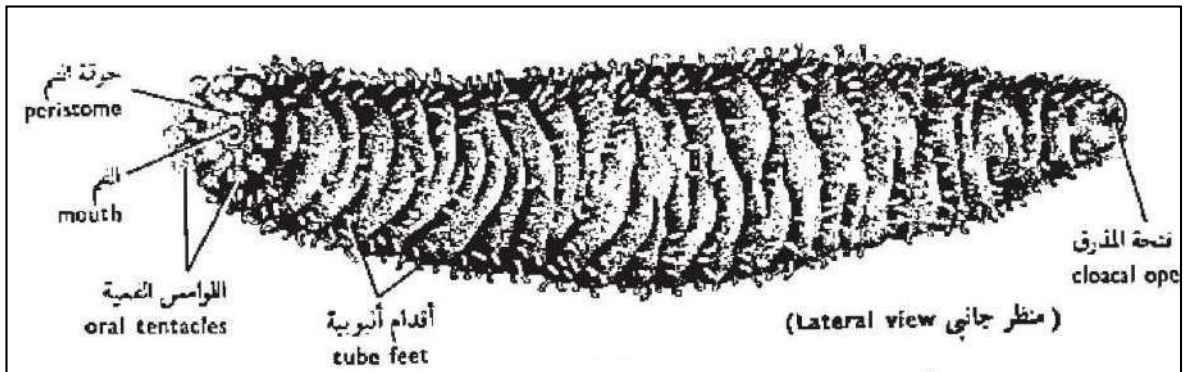
**Kingdom: Animali**

**Subkingdom: Metazoa**

**Phylum: Echinodermata**

**Class: Holothuroidea**

**e.g.: *Holothuria curiosa*.**





## References

بيولوجية الحيوان العملية باللغتين العربية والإنجليزية (الجزء الثالث) :  
للدكتور أحمد حماد الحسيني والدكتور إميل شنودة دميان ، القاهرة (مصر):  
دار المعارف 1969.