



جامعة جنوب الوادي  
كلية التربية

مقرر لافقاريات ١

**Code: BGS115**

الجزء العملي

اعداد

د. عزة محمود جابر

العلوم البيولوجية

الفصل الدراسي الاول

الفرقة الاولى

**2022-2023**

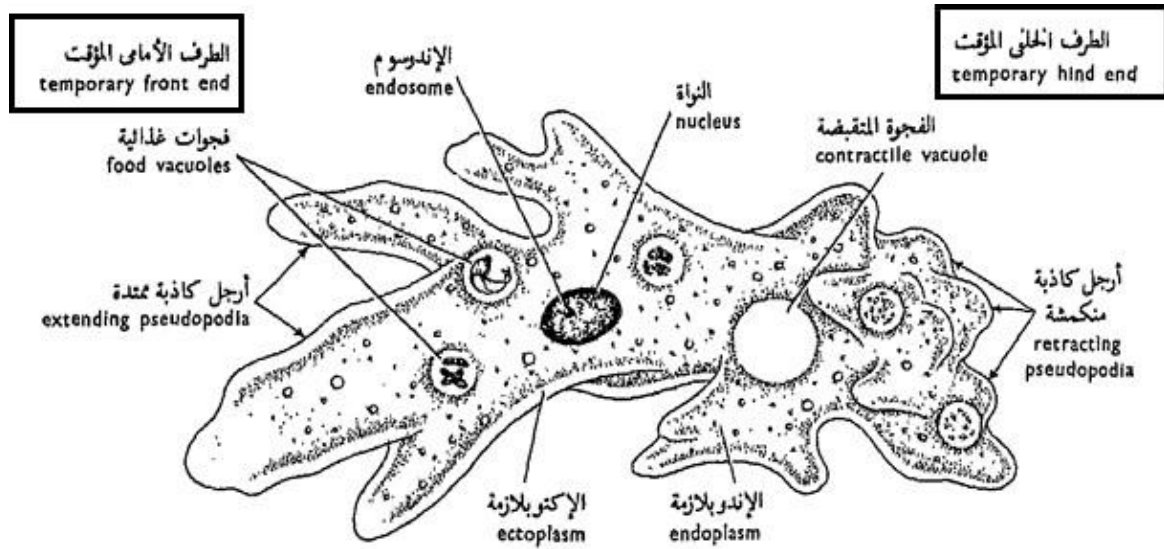
**Kingdom : Protista**

**Subkingdom : Protozoa**

**Phylum : Protozoa**

**Class : Sarcodina**

**e.g. : Amoeba sp.**



*Amoeba proteus*

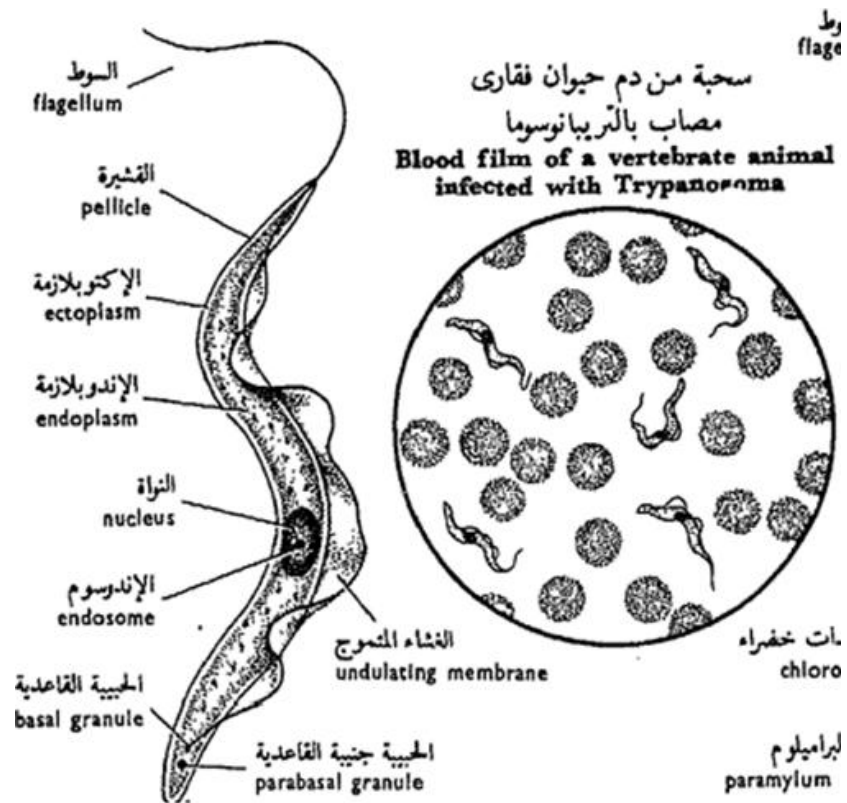
**Kingdom : Protista**

**Subkingdom : Protozoa**

**Phylum : Protozoa**

**Class : Mastigophora**

**e.g. : *Trypanosoma* sp.**



***Trypanosoma***

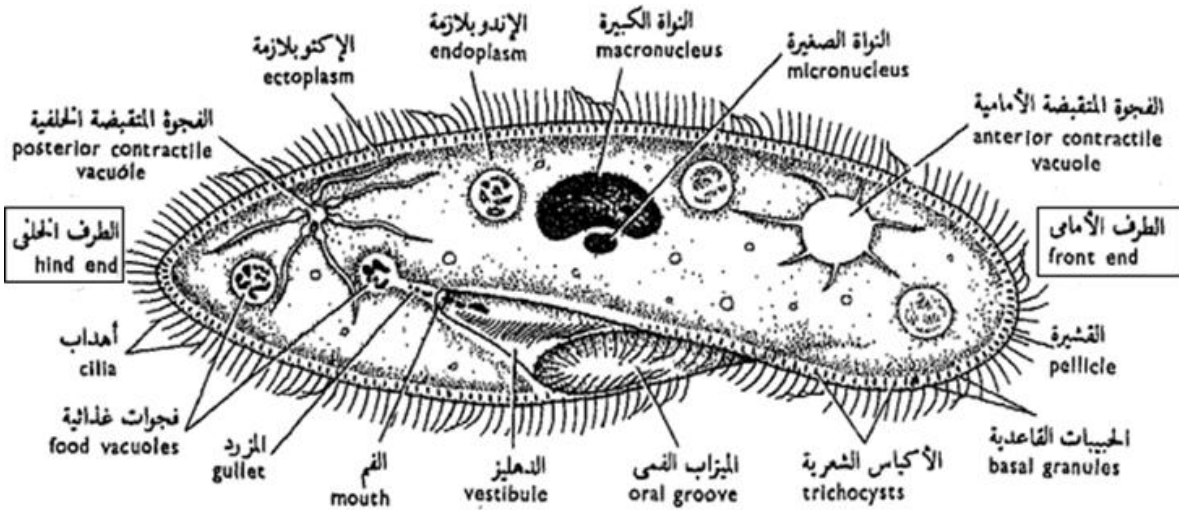
**Kingdom : Protista**

**Subkingdom : Protozoa**

**Phylum : Protozoa**

**Class : Ciliophora**

**e.g. : *Paramecium* sp.**



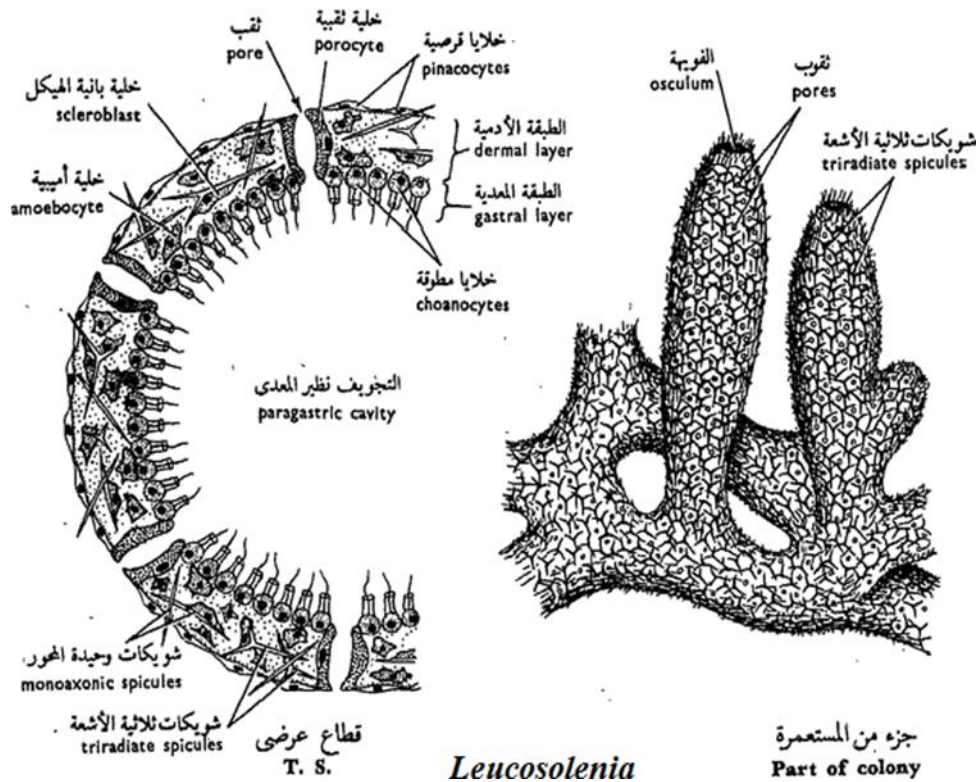
***Paramecium***

**Kingdom :Animalia**

**Subkingdom :Metazoa**

**Phylum : Porifera (sponges)**

**e.g. : *Leucosolenia* (The ascon type)**



**Kingdom :Animalia**

**Subkingdom :Metazoa**

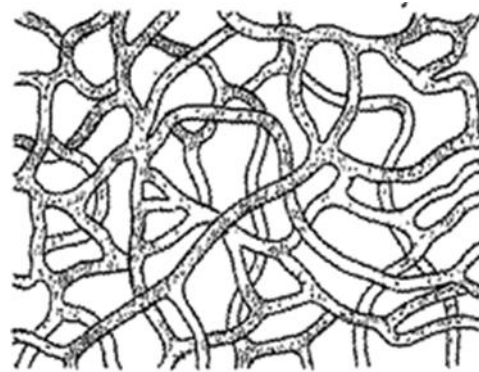
**Phylum : Porifera (sponges)**

**e.g. : *Sycon* (The sycon type )**

**e.g. : *Euspongia sp.* (The leucon type)**



*Sycon*



الألياف الإسفنجية من إسفنج الحمام  
Spongin fibres from bath sponge

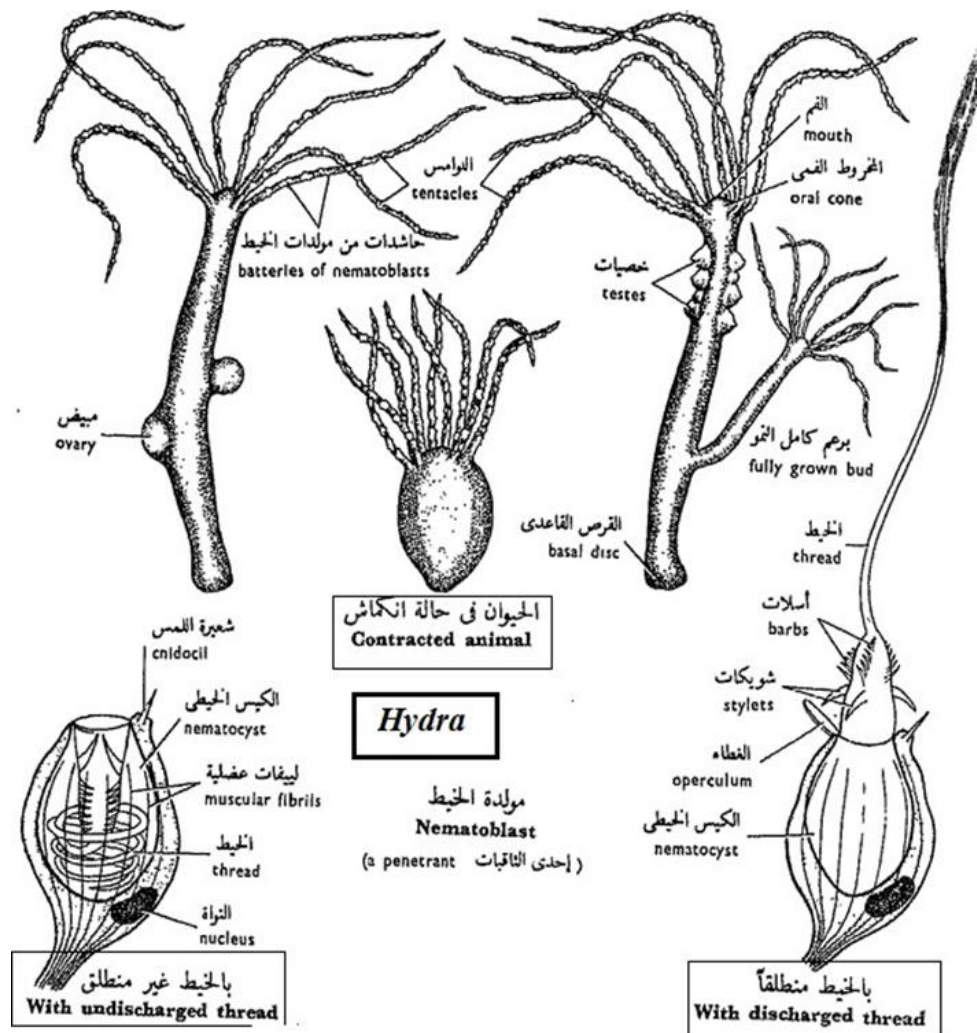
**Kingdom : Animalia**

**Subkingdom : Eumetazoa**

**Phylum : Coelenterata**

**Class : Hydrozoa**

**e.g. : *Hydra* sp.**



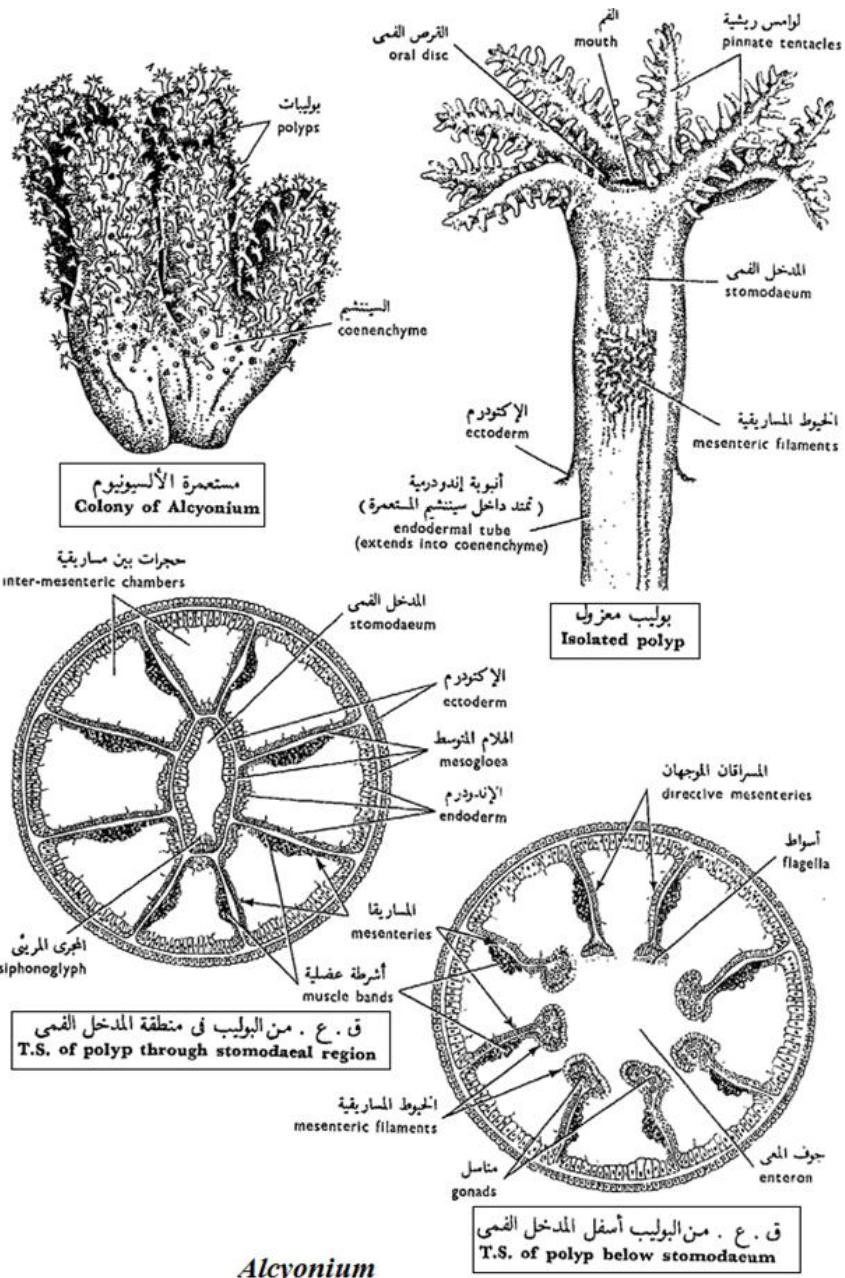
**Kingdom : Animalia**

**Subkingdom : Eumetazoa**

**Phylum : Coelenterata**

**Class : Actinozoa**

**e.g. : *Alcyonium sp.***





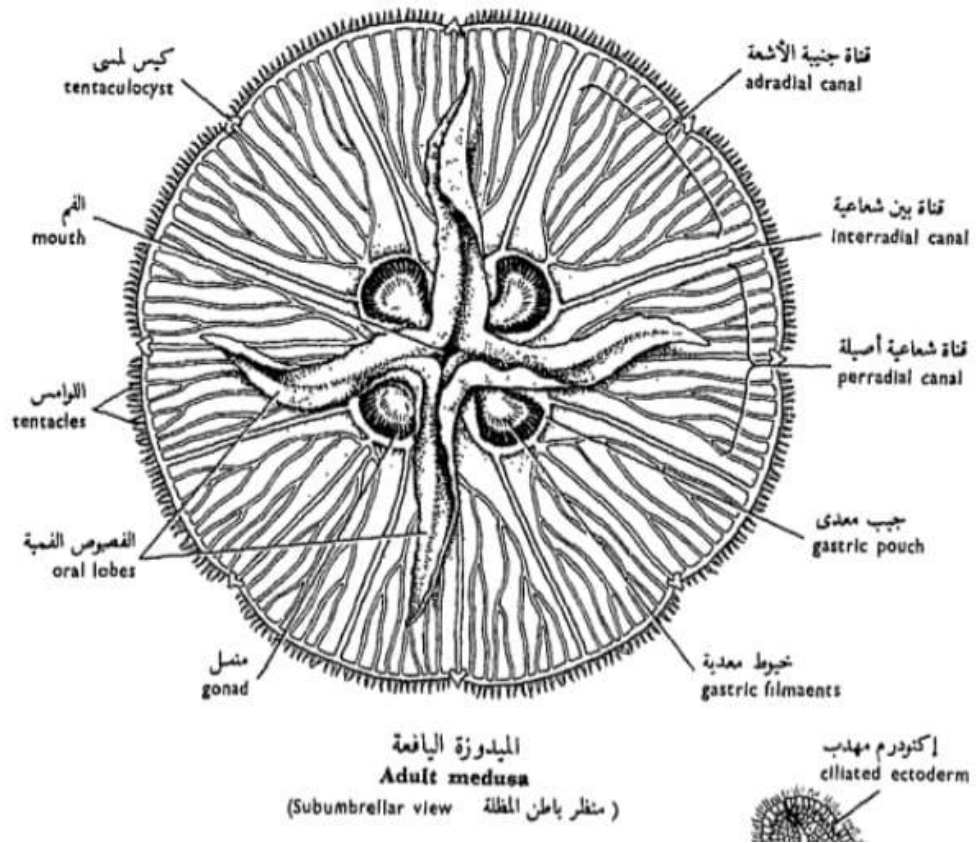
**Kingdom : Animalia**

**Subkingdom : Eumetazoa**

**Phylum : Coelenterata**

**Class : Scyphozoa**

**e.g. : Aurelia sp.**



Kingdom : Animalia

Subkingdom : Eumetazoa

Phylum : Platyhelminthes

Class : Trematoda

Order : Digenea

e.g. : *Fasciola gigantica*



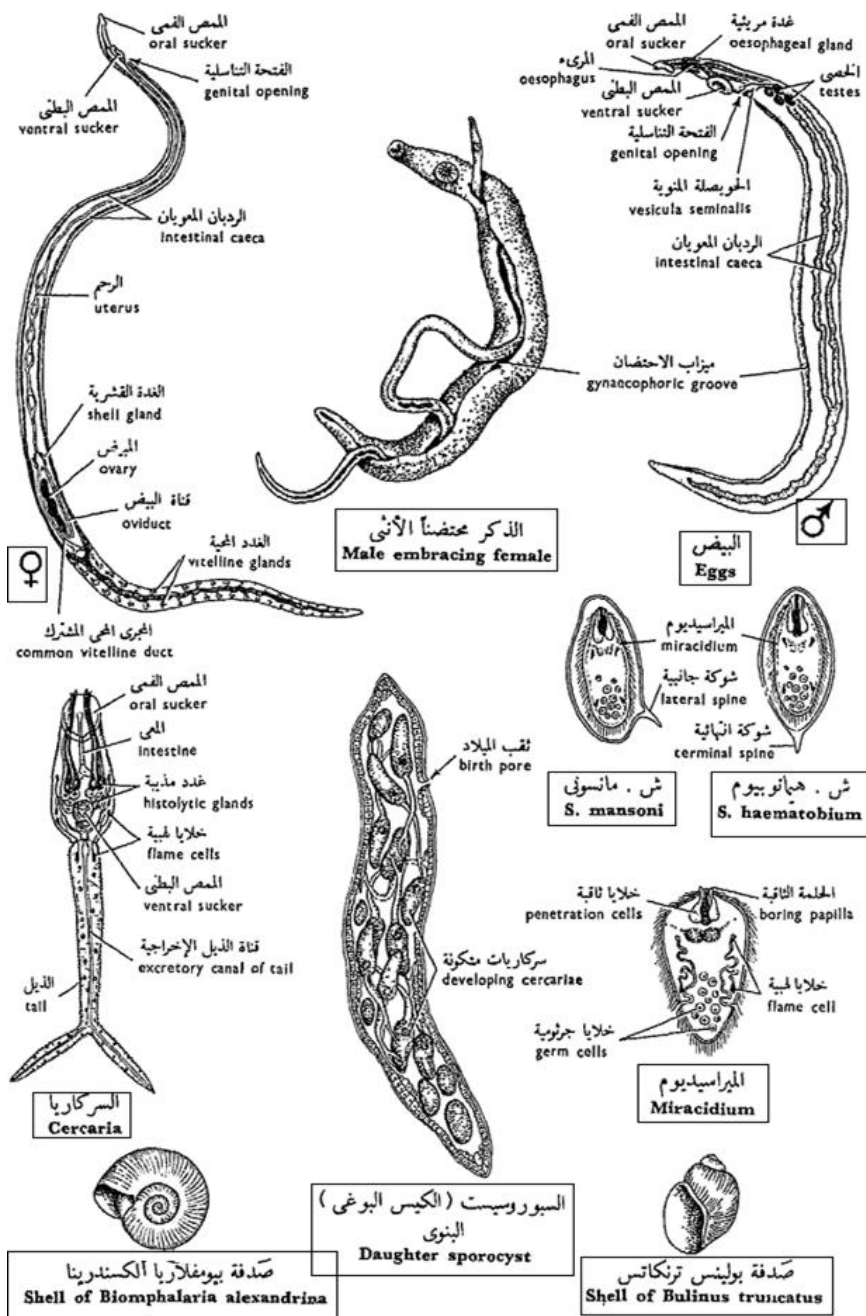
شكل ٢١ - فاسيولا جيجانتিকা  
FIG. 21 - FASCIOLA GIGANTICA

Phylum : Platyhelminthes

Class : Trematoda

Order : Digenea

e.g. : *Schistosoma haematobium*



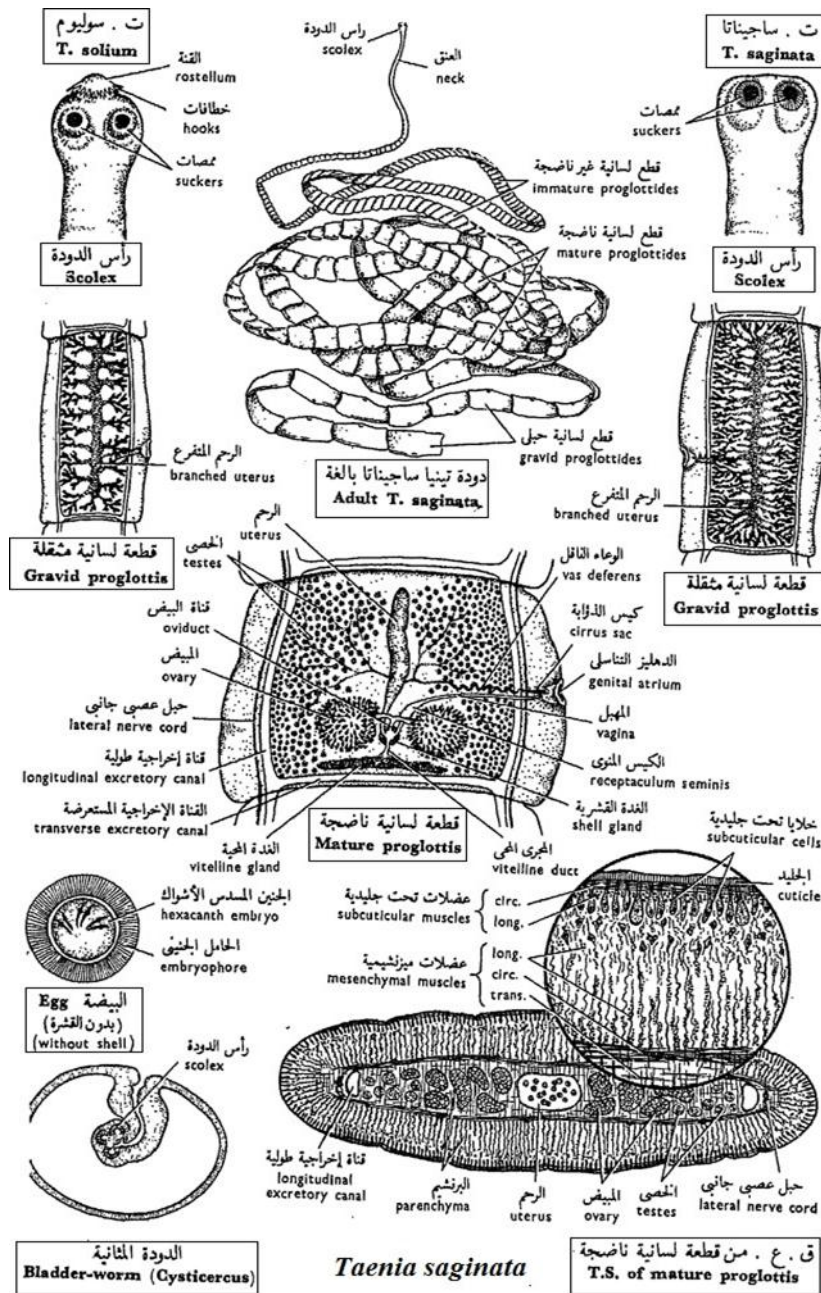
*Schistosoma haematobium*

Phylum : Platyhelminthes

Class : Cestoda

e.g. : *Taenia saginata*

e.g. : *Taenia solium*



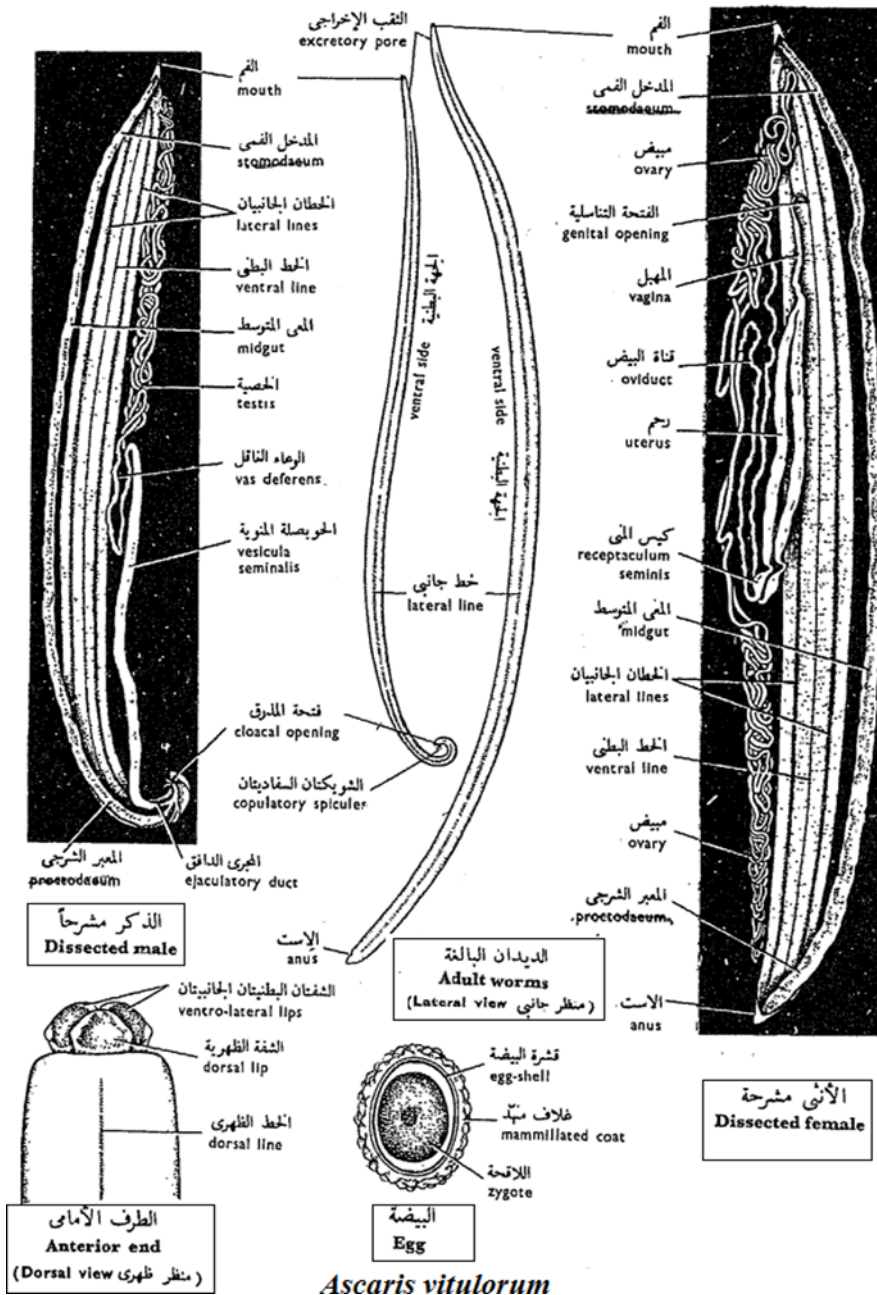
Kingdom : Animalia

Subkingdom : Eumetazoa

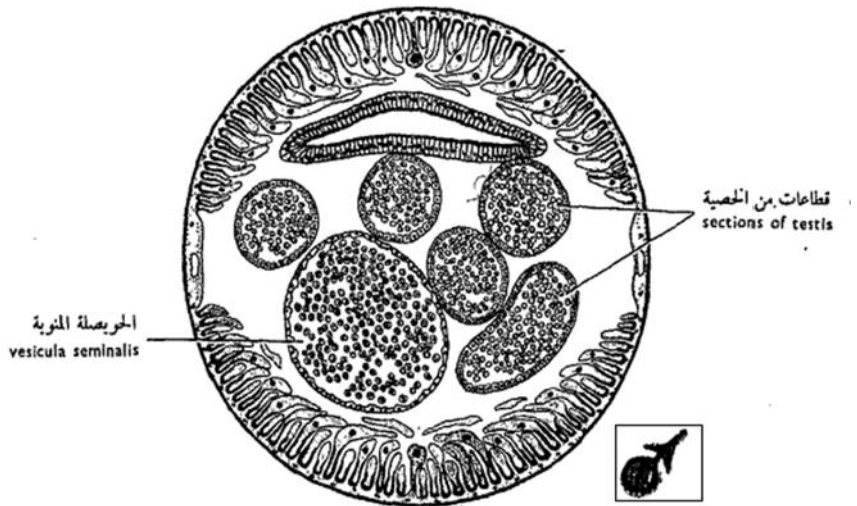
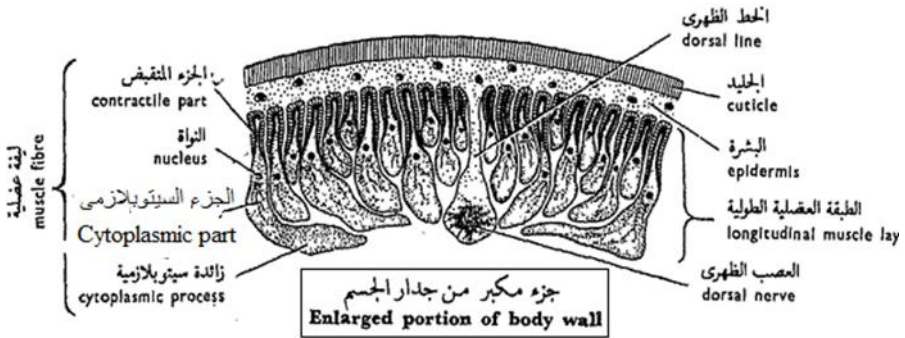
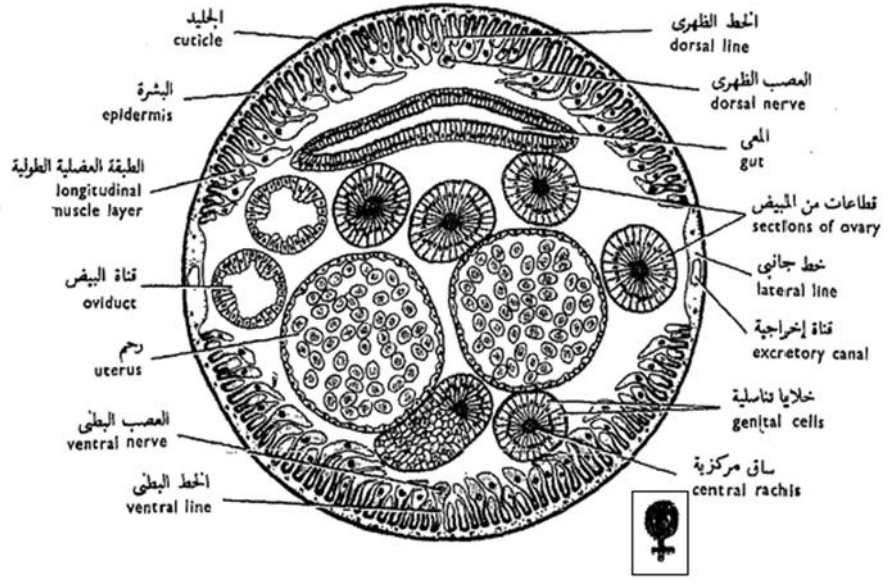
Phylum : Aschelminthes

Order : Ascaridata

e.g. : *Ascaris vitulorum*



*Ascaris vitulorum*



T.S. of female and male *Ascaris vitulorum*

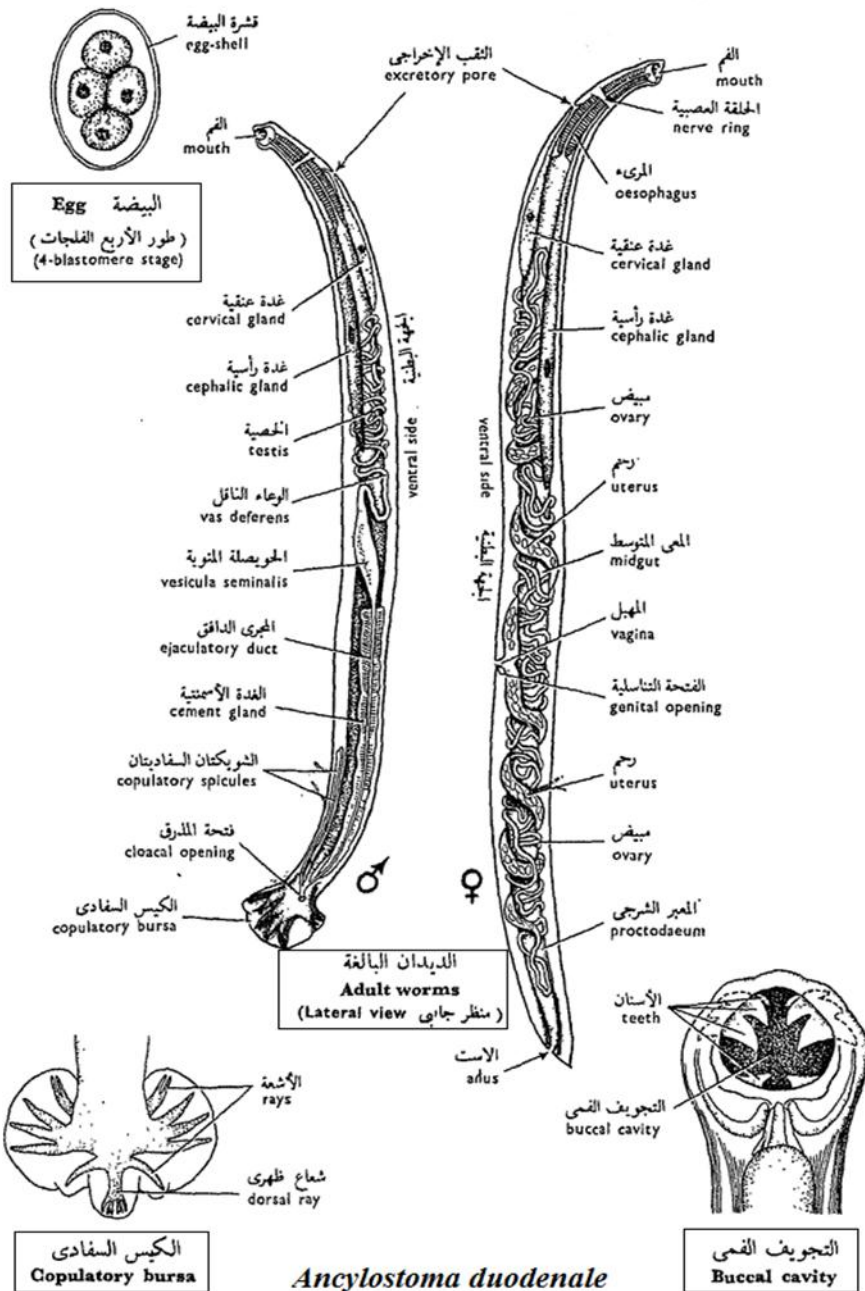
**Kingdom : Animalia**

**Subkingdom : Eumetazoa**

**Phylum : Aschelminthes**

**Order : strongylata**

**e.g. : *Ancylostoma duodenale***



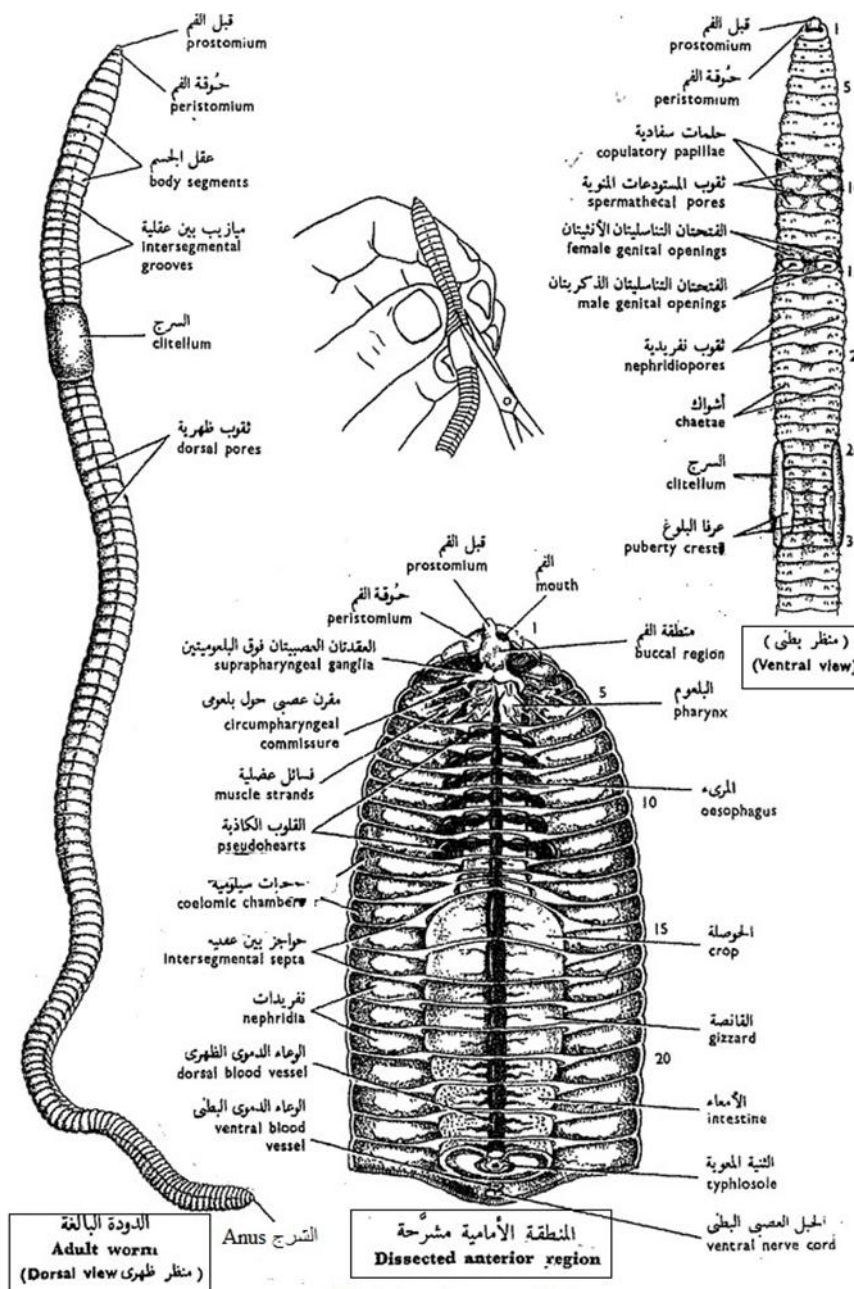
Kingdom : Animalia

Subkingdom: Eumetazoa

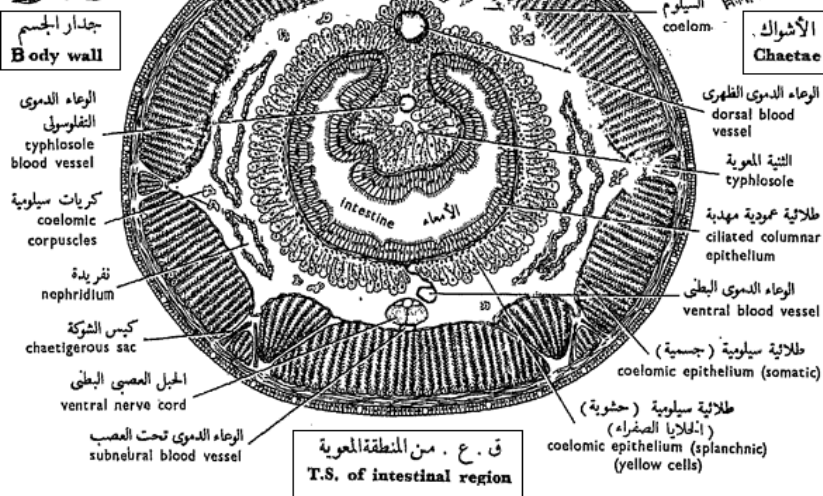
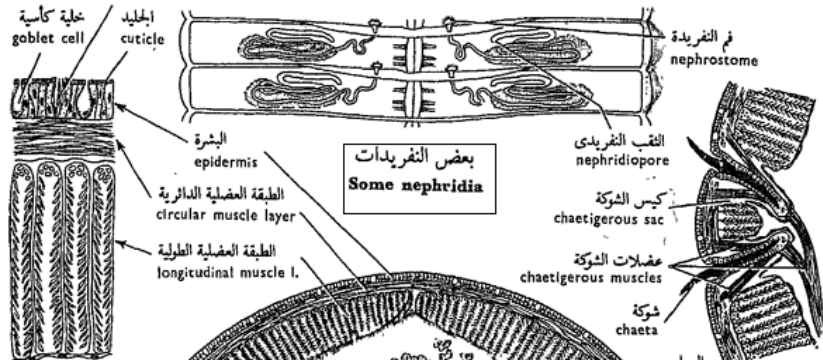
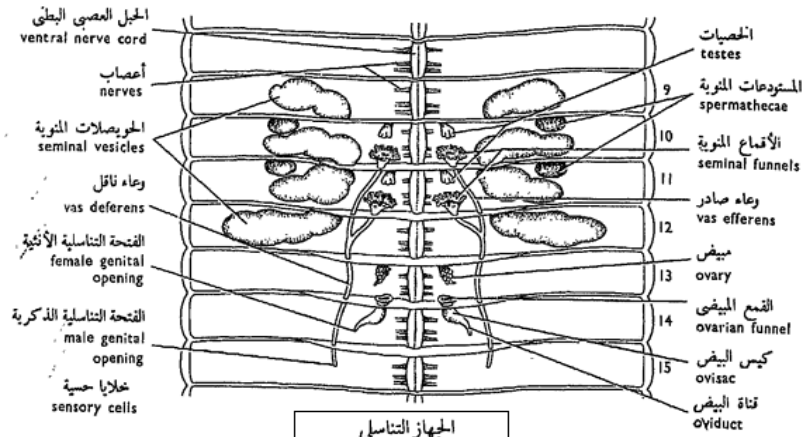
Phylum : Annelida

Class : Clitellata

e.g. : *Aporrectodea caliginosa*







*Allobophora caliginosa*

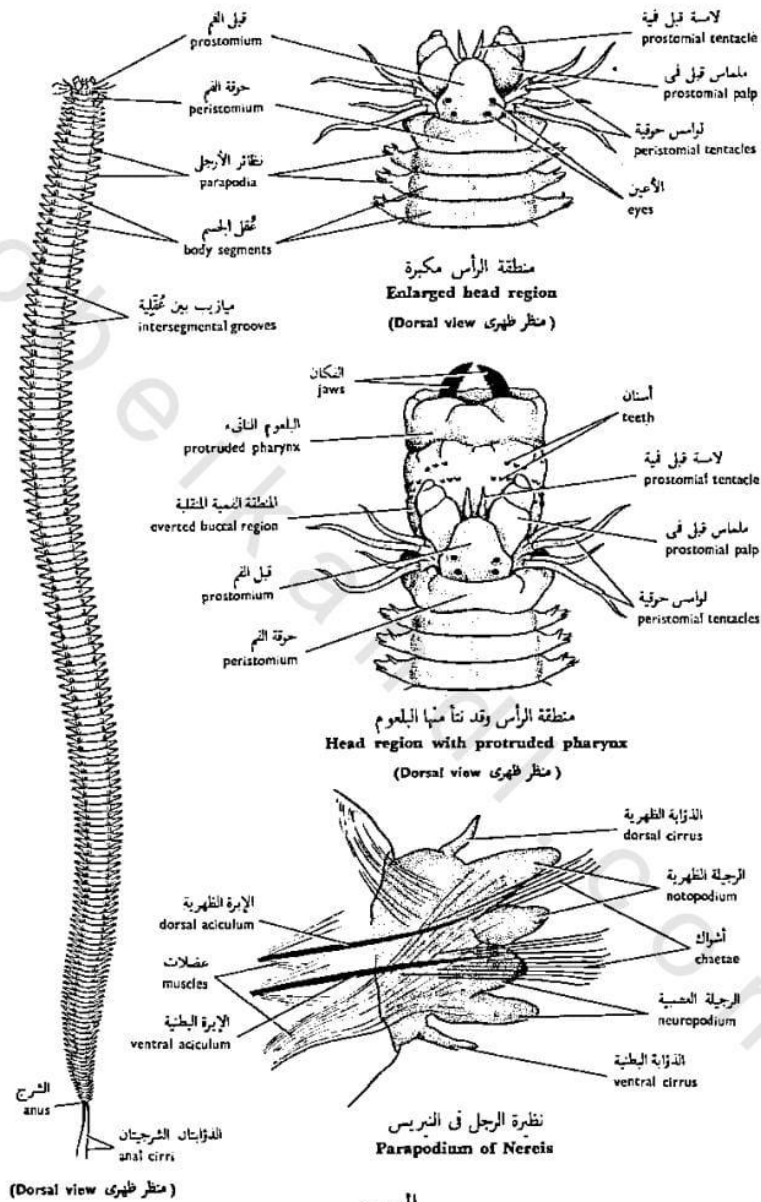
**Kingdom : Animalia**

**Subkingdom: Eumetazoa**

**Phylum : Annelida**

**Class : Polychaeta**

**e.g. : Nereis sp.**



**النيريس  
NEREIS**

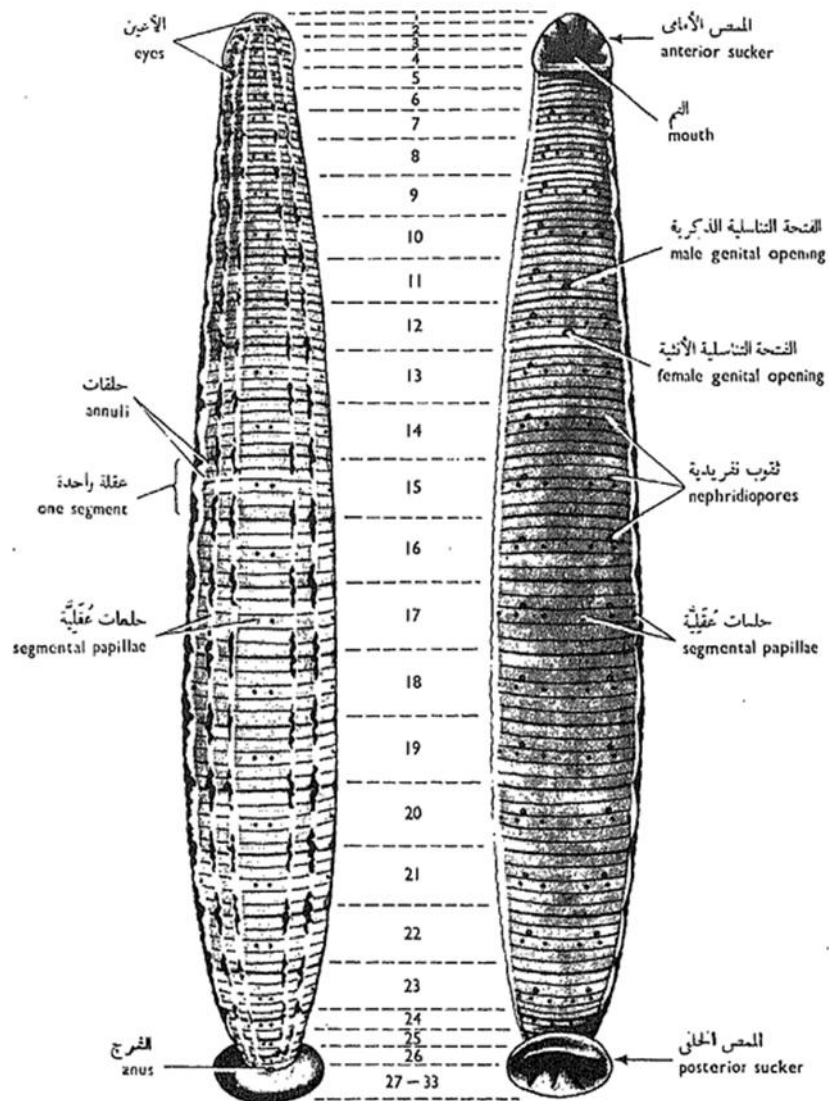
**Kingdom : Animalia**

**Subkingdom: Eumetazoa**

**Phylum : Annelida**

**Class : Clitellata**

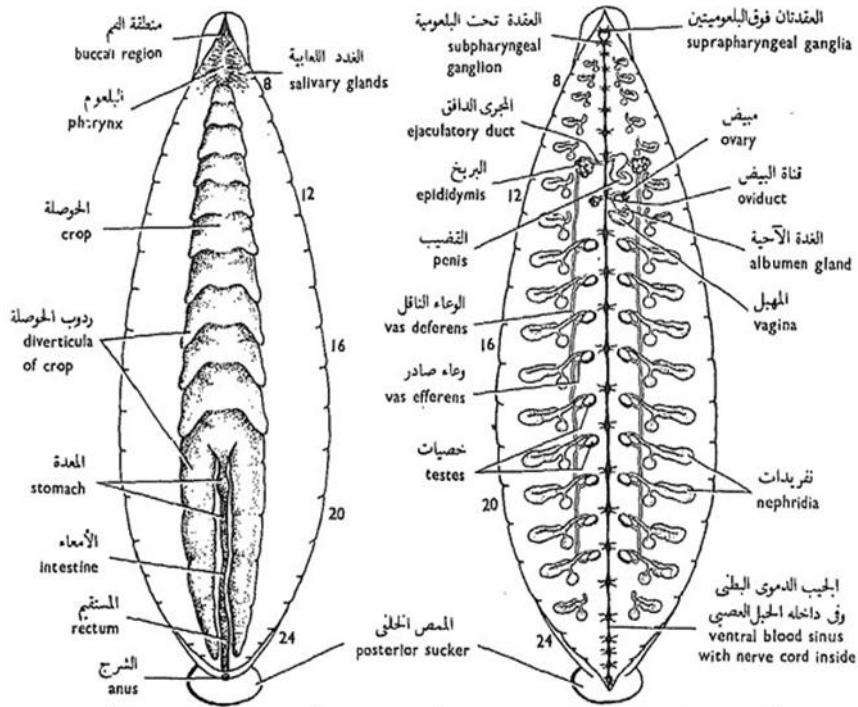
**e.g. : *Hirudo medicinalis***



(Dorsal view منظر ظهري)

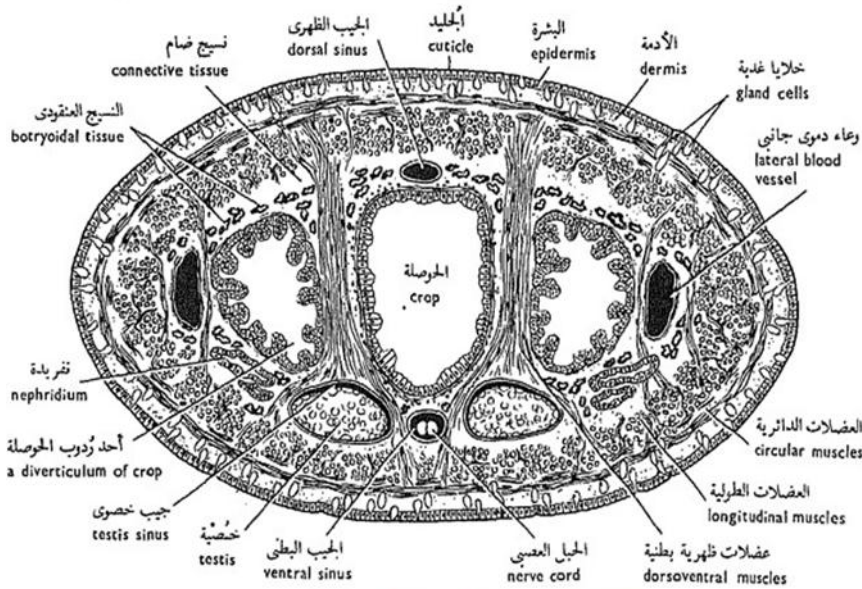
(Ventral view منظر بطني)

*Hirudo medicinalis*



الجهاز الهضمي  
Digestive system

الجهازان التناسلي والعصبي  
Reproductive and Nervous systems



T.S. of *Hirudo medicinalis*