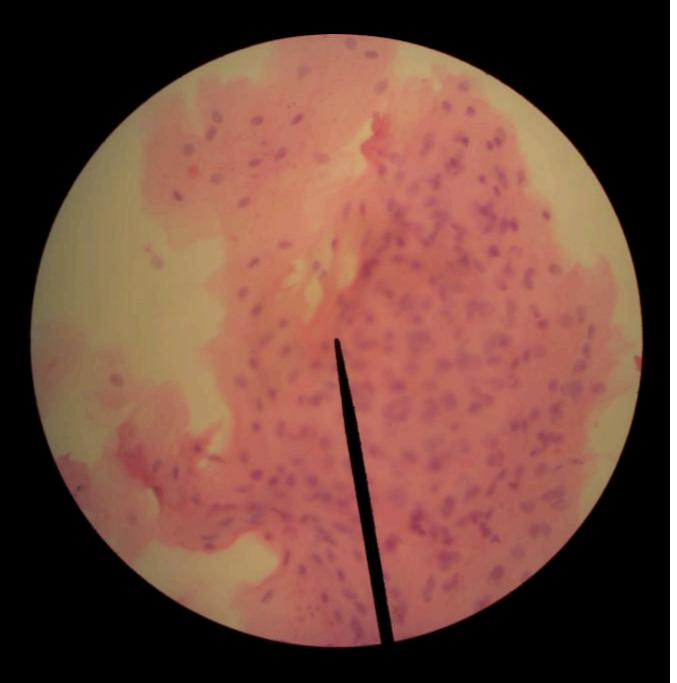
# Structure Review



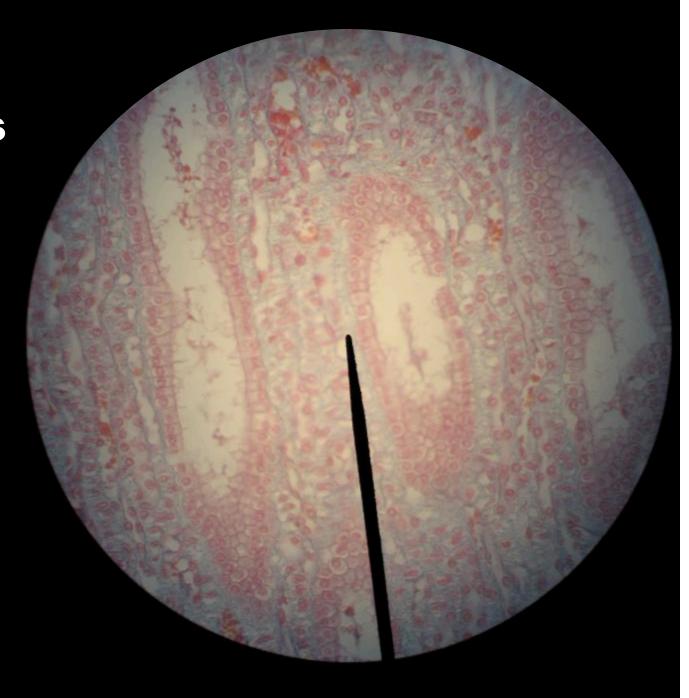
For Practicum 3:

**The Invertebrates Labs** 

Simple Squamous



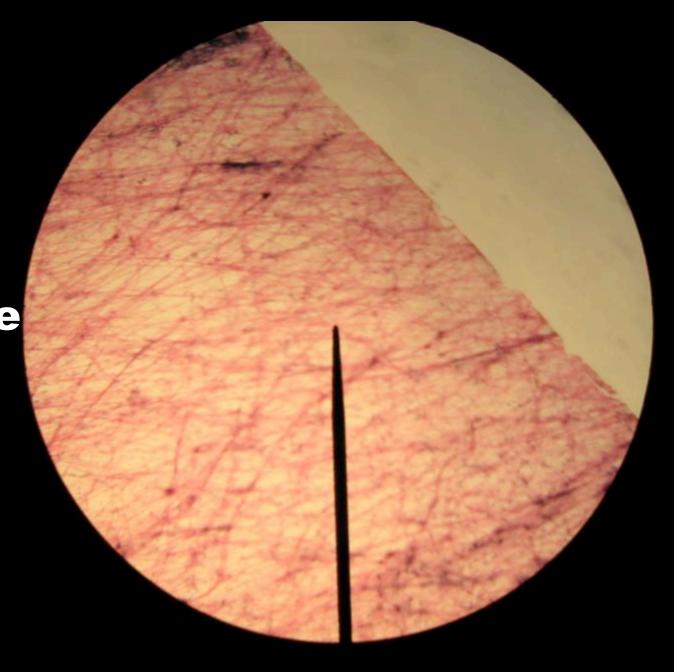
Simple Cuboidal



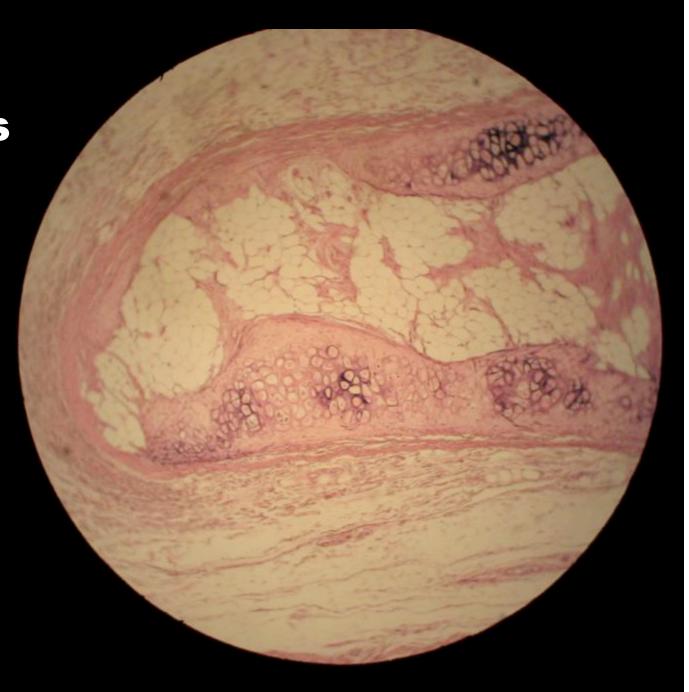
**Stratified Columnar** 



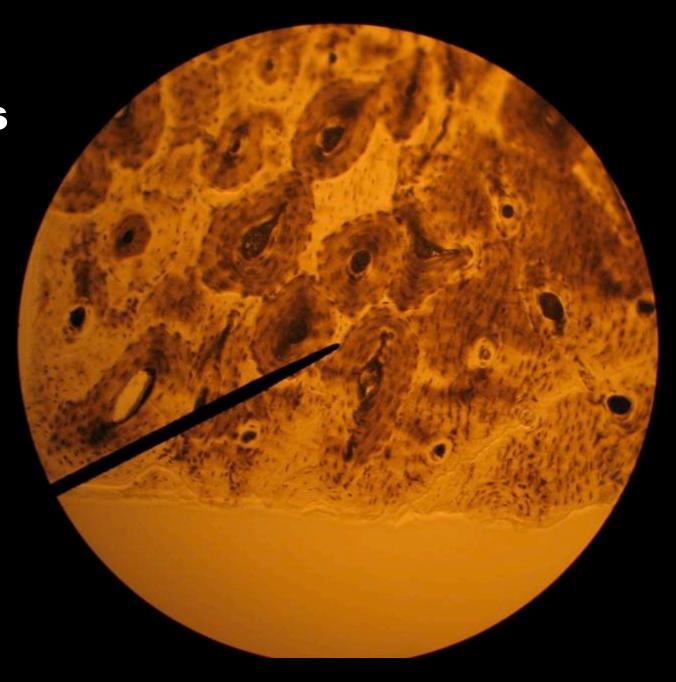
Loose connective tissue



Cartilage

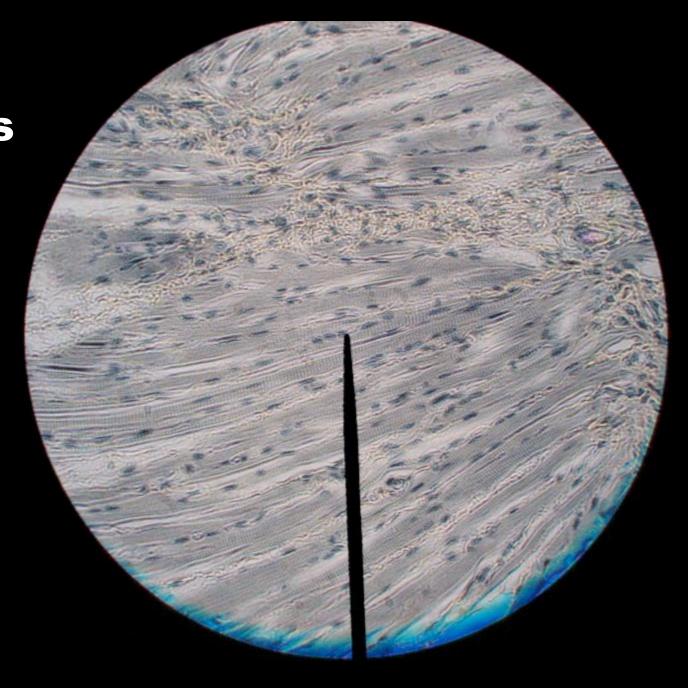


Bone



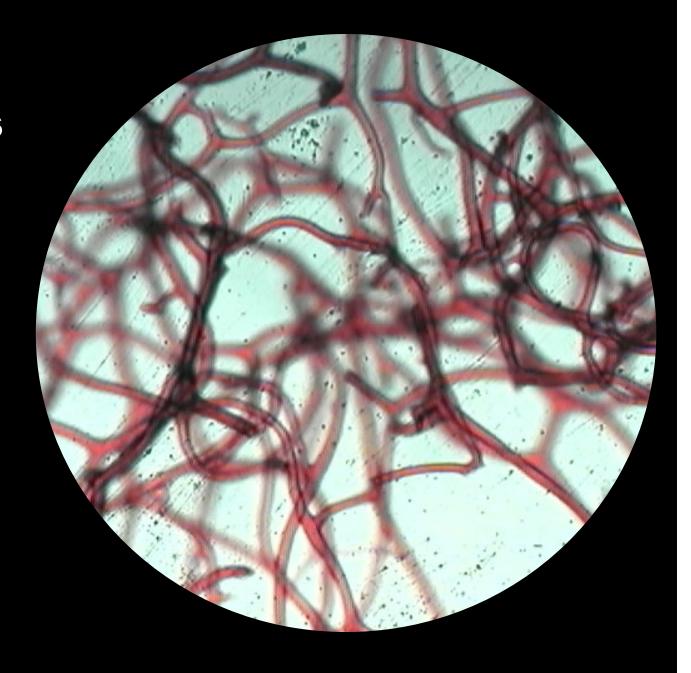


Skeletal Muscle



Name this cellular tissue:

**Spongin** 



Name this cellular tissue:

**Spicules** 



What is the movement of water through this sponge? Ostia --- Incurrent Canal --- Prosopyle --- Radial Canal --- Apopyle --- Spongocoel --- Osculum What type of sponge body type is this? **Syconoid Body type** Name the structures at the pointers: A. Ostia **B.** Incurrent Canal C. Prosopyle **D. Radial Cana** E. Apopyle F. Spongocoel **G.** Choanocyte

What Phylum does this organism belong to?
Phylum Cnidaria

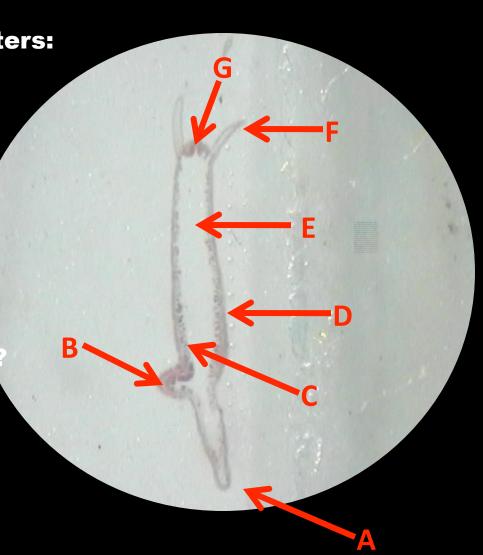
What Class does this organism belong to?

**Class Hydrozoa** 

Name the structures at the pointers:

- A. Basal Disc
- B. Bud
- **C.** Gastrodermis
- **D. Epidermis**
- E. Gastrovascular cavity
- F. Tentacle
- **G.** Mouth

What is the name of the "tissue" that is found between the epidermis and the gastrodermis Mesoglea



**Phylum Cnidaria** 

What Class does this organism belong to?

**Class Hydrazoa** 

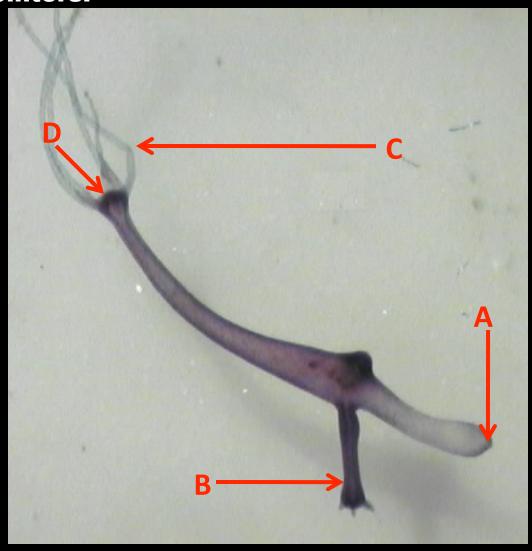
Name the structures at the pointers:

A: Basal Disc

B: Bud

C: Tentacles

**D:** Mouth



**Phylum Cnidaria** 

What Class does this organism belong to?

**Class Hydrozoa** 

Is this a male or a female?

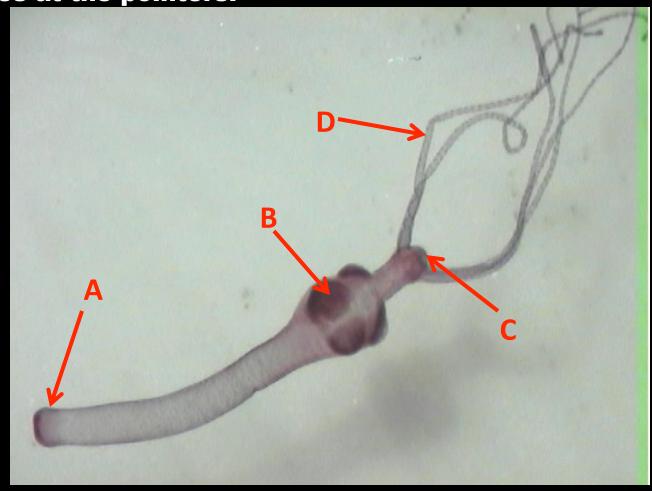
Male

Name the structures at the pointers:

A: Basal Disc

B: Testes C: Mouth

**D: Tentacles** 



**Phylum Cnidaria** 

What Class does this organism belong to?

**Class Hydrozoa** 

Is this a male or a female?

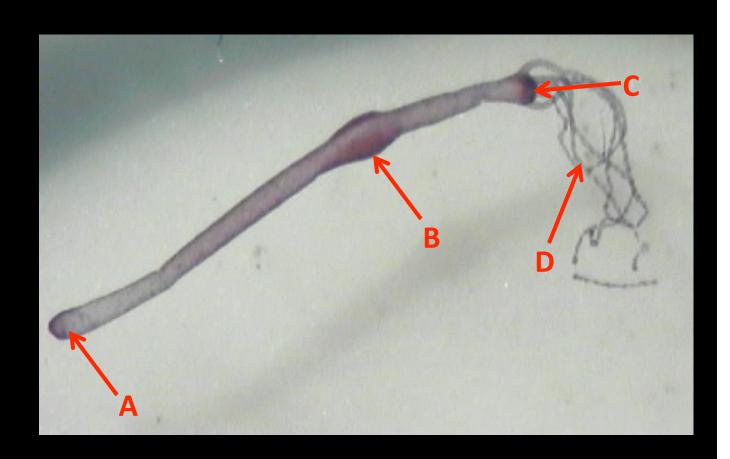
**Female** 

Name the structures at the pointers:

A: Basal Disc

B: Ovary C: Mouth

**D: Tentacles** 



What is this structure called? **Hydranth** 

What is its function?

A polyp for feeding

In what Phylum is this structure found?

**Phylum Cnidaria** 

In what Class is this structure found?

**Class Hydrozoa** 

\*Found in the colonial Hydra called "Obelia"

What is this structure called?

Gonangium

What is its function?

A polyp for reproduction

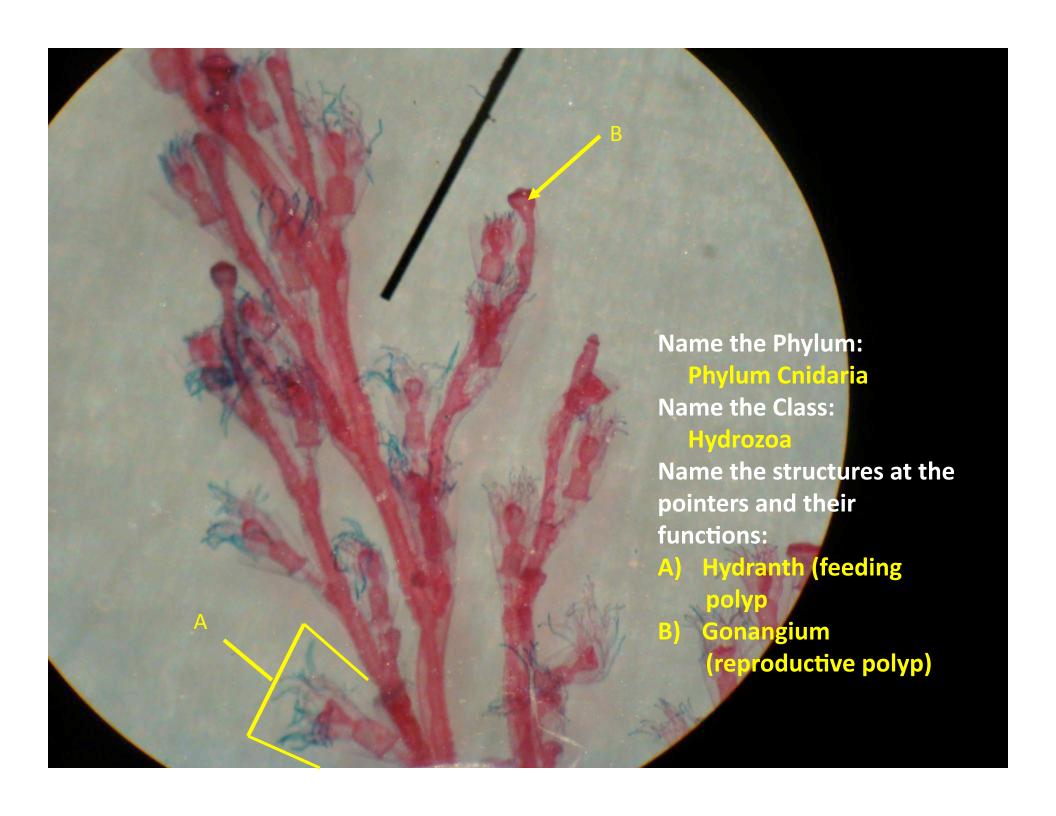
In what Phylum is this structure found?

**Phylum Cnidaria** 

In what Class is this structure found?

**Class Hydrozoa** 

\*Found in the colonial Hydra called "Obelia"



**Phylum Cnidaria** 

What Class does this organism belong to?

**Class Hydrazoa** 

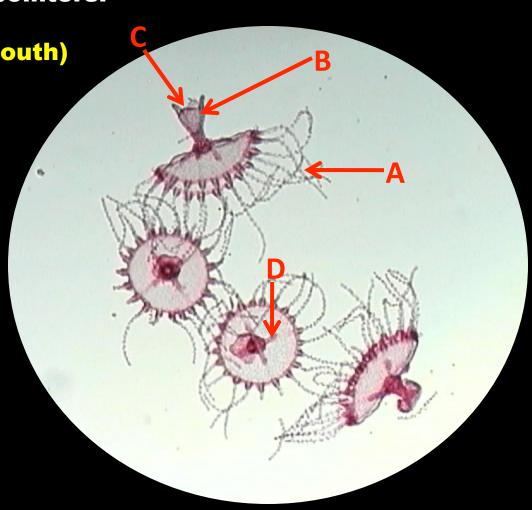
Name the structures at the pointers:

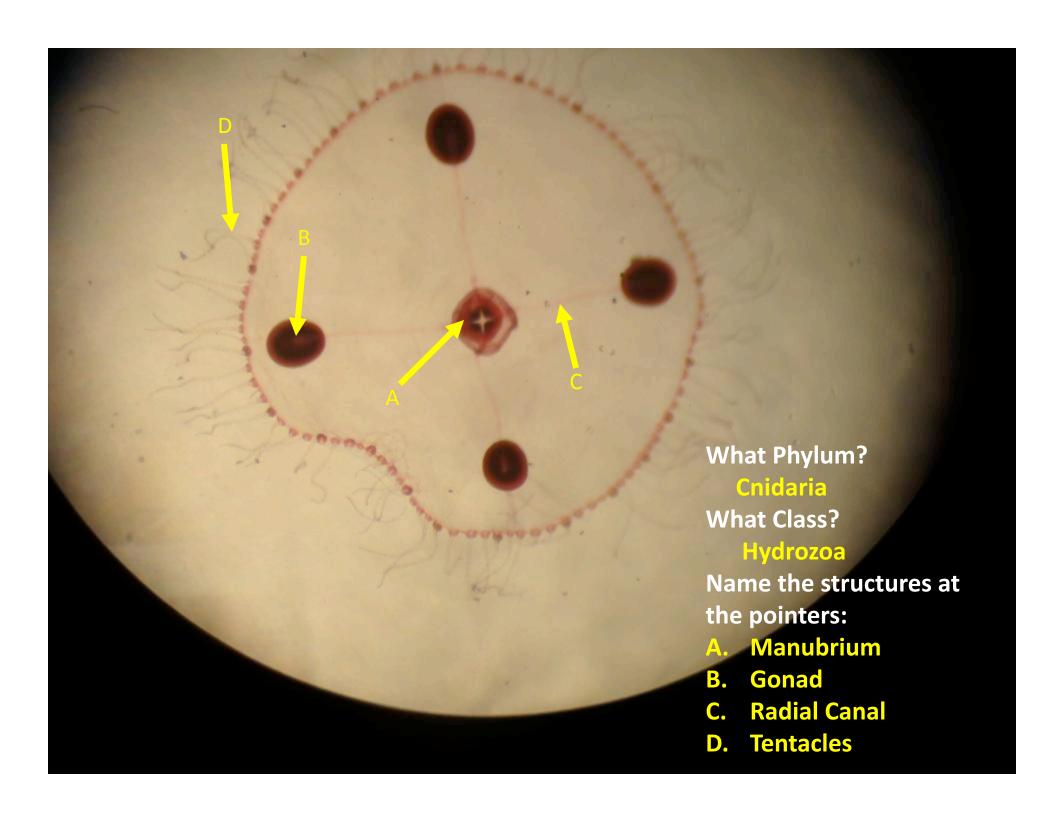
A. Tentacles

**B.** Manubrium (houses the mouth)

C. Mouth

D. Radial Canals





What Phylum does this organism belong to?

Phylum Cnidaria

What Class does this organism belong to?

Class Scyphozoa



# **Review:**

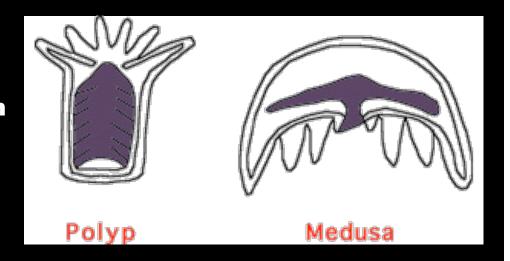
The "Mesoglea" found in Phylum Cnidaria is not a tissue layer. It is an internal secretion of the epidermis. It is a thin layer that separates the Epidermis from the Gastrodermis.

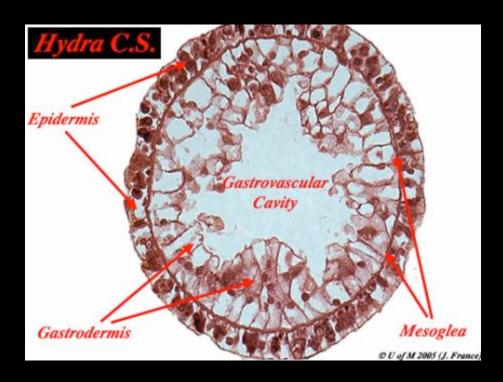
The Polyp form of Cnidarians have tentacles that point upward. The Medusa form of Cnidarians have tentacles that point downward.

Hydrozoans can be either polyp or medusa.

Scyphozoans are usually medusa.

**Anthozoans** are usually polyp.





What Phylum does this organism belong to?
Phylum Platyhelminthes
What Class does this organism belong to?
Class Turbellaria
What type of body cavity does this organism have?
Acoelomate body cavity
Name the structures at the pointers:

A: Eyespots

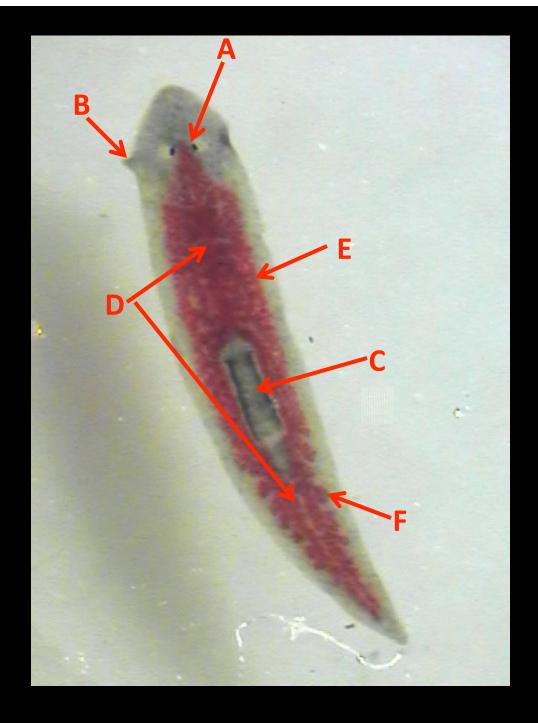
**B: Auricles** 

C: Pharynx

**D:** Gastrovascular Cavity

**E: Anterior intestinal Cavity** 

**F: Posterior intestinal Cavity** 



**What Phylum does this** organism belong to? **Phylum Platyhelminthes What Class does this** 

organism belong to?

**Class Turbellaria** 

What type of body cavity does this organism have? **Accelomate body cavity** 

Name the structures at the

pointers:

A: Eyespots

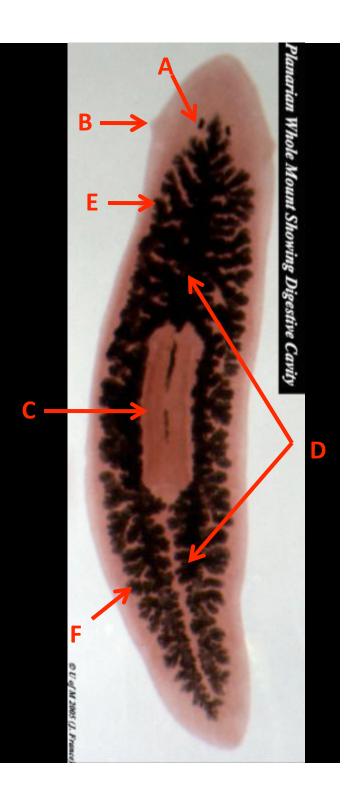
**B:** Auricles

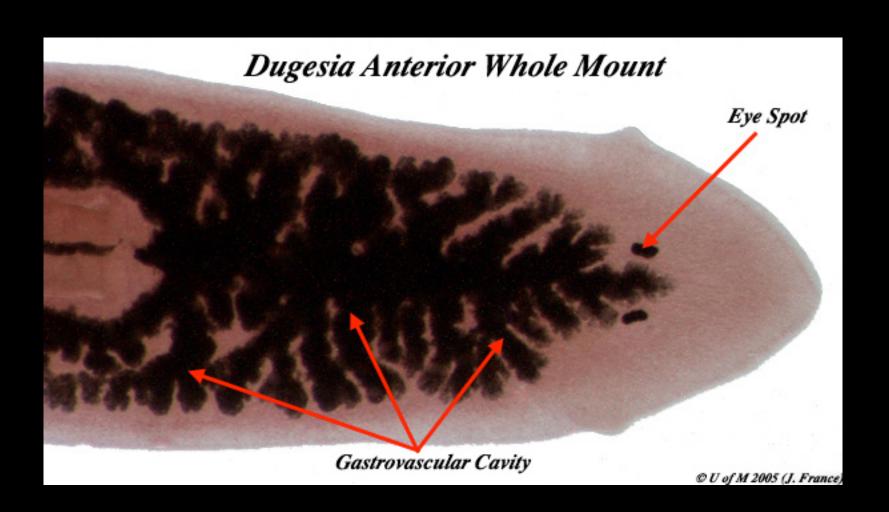
C: Pharynx

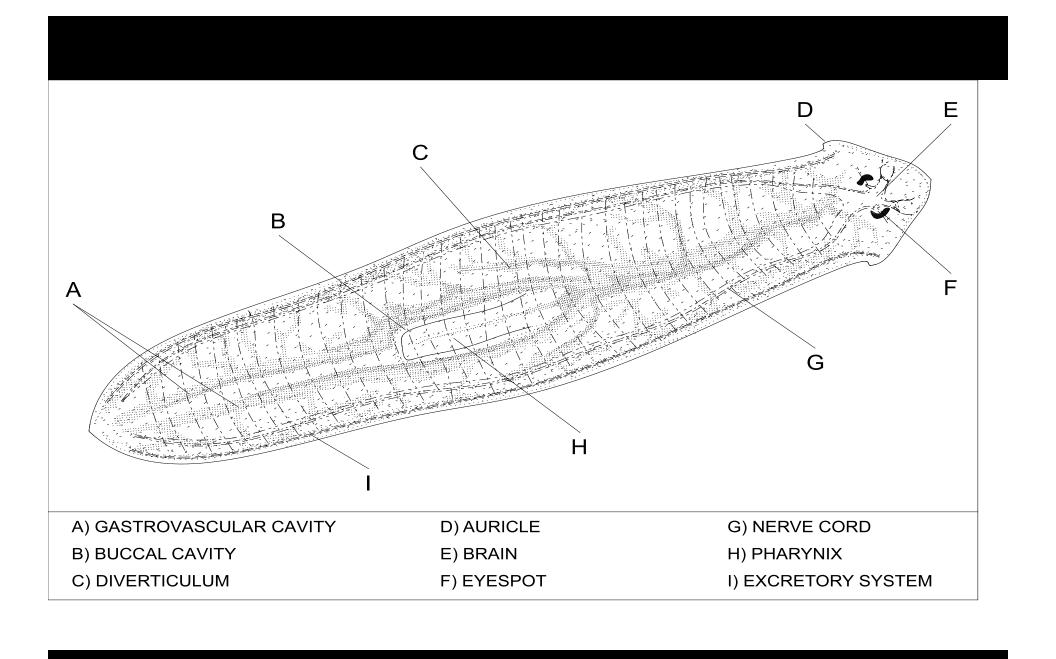
**D:** Gastrovascular Cavity

**E:** Anterior intestinal Cavity

**F: Posterior intestinal Cavity** 







To what Phylum and Class does this cross section belong?

Phylum Platyhelminthes, Class Turbellaria

What Region is this a cross section of?

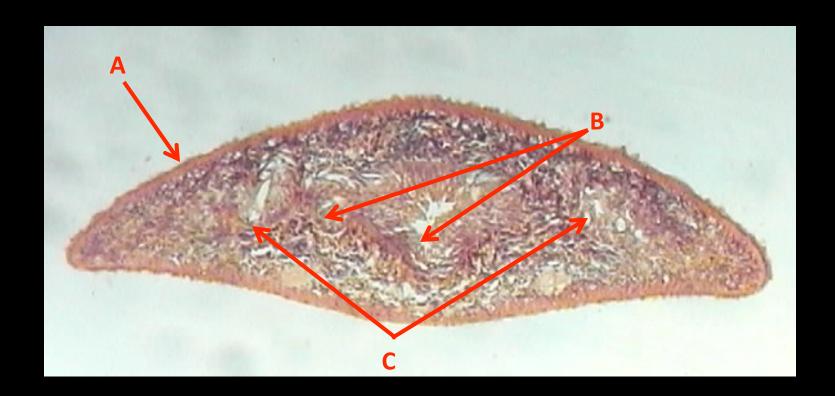
**The Anterior Region** 

Name the structures at the pointers:

A: Epidermis

**B:** Gastrodermis

**C:** Anterior Branches of the Intestine



To what Phylum and Class does this cross section belong?

**Phylum Platyhelminthes, Class Turbellaria** 

What Region is this a cross section of?

**The Pharyngeal Region** 

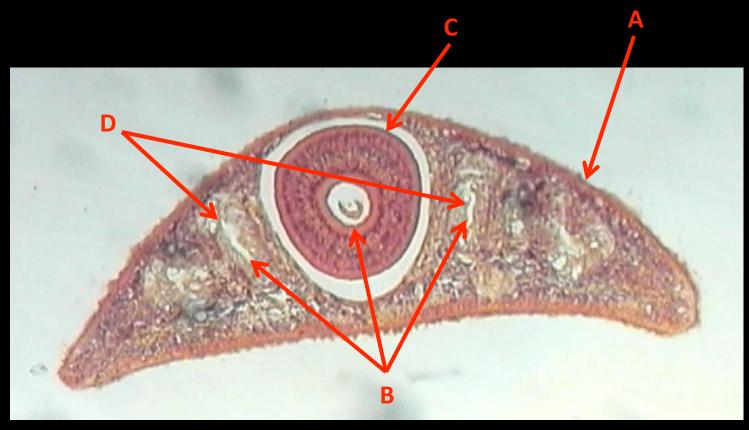
Name the structures at the pointers:

A: Epidermis

**B:** Gastrodermis

C: Pharynx

**D: Branches of the Intestine** 



To what Phylum and Class does this cross section belong?

Phylum Platyhelminthes, Class Turbellaria

What Region is this a cross section of?

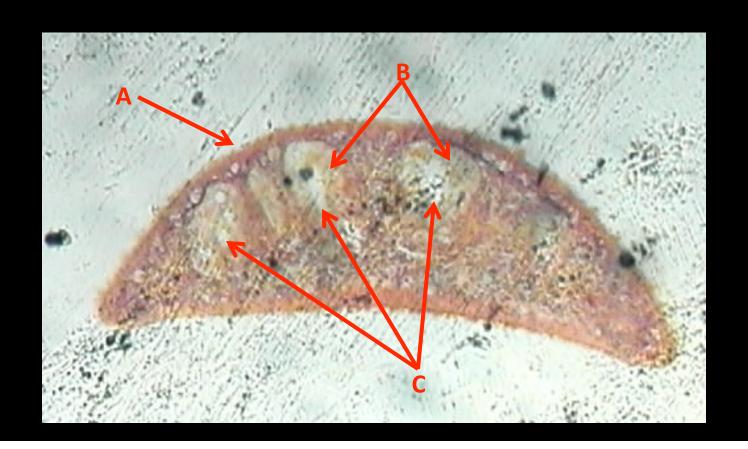
**The Posterior Region** 

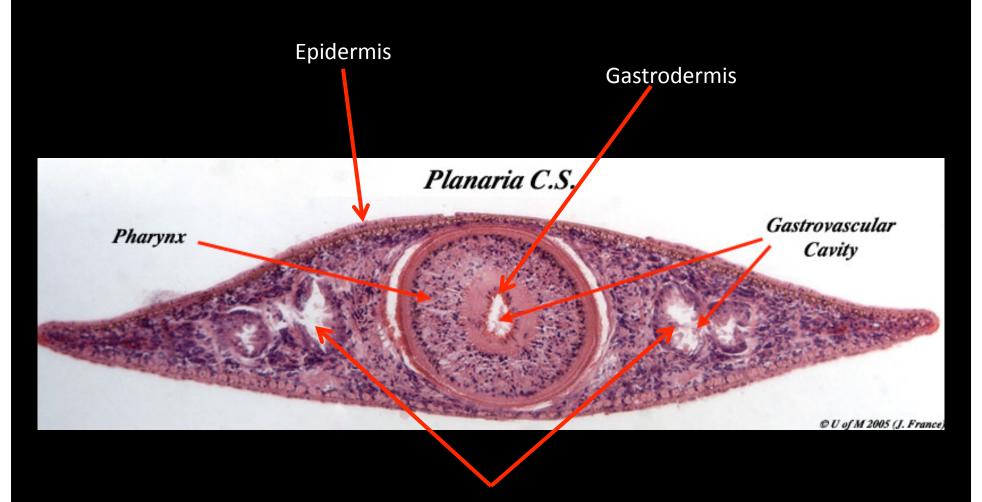
Name the structures at the pointers:

A: Epidermis

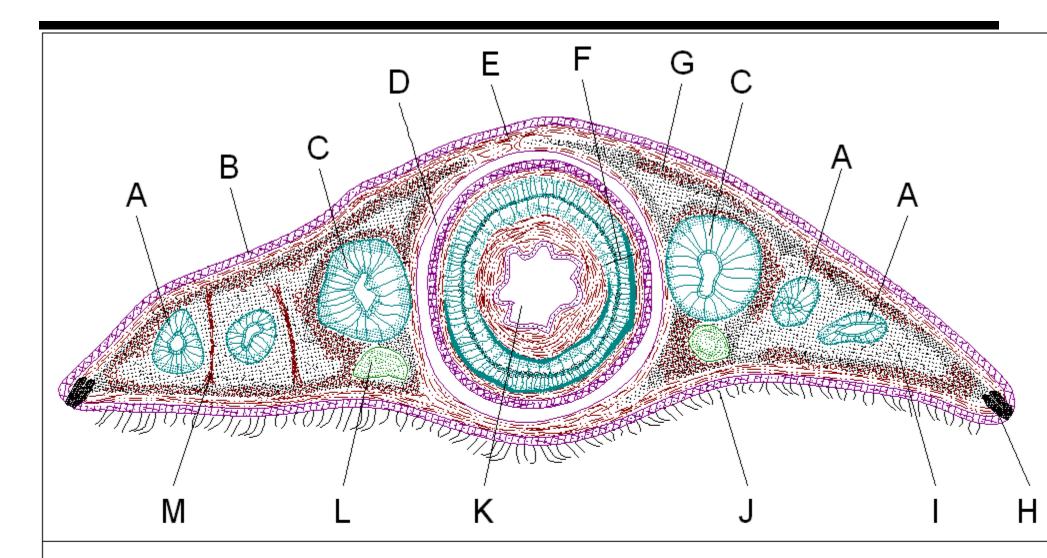
**B:** Gastrodermis

C: Posterior Branches of the Intestine





**Intestinal Branches** 



- A) DIVERTICULUM
- B) EPIDERMIS
- C) GASTROVASCULAR CAVITY
- D) BUCCAL CAVITY
- E) CIRCULAR MUSCLE

- F) GLANDULAR TISSUE
- G) LONGITUDINAL MUSCLE
- H) ADHESIVE GLAND
- I) PARENCHYMA
- J) CILIA

- K) LUMEN OF PHARYNX
- L) NERVE CORD
- M) VERTICAL MUSCLE

**Phylum Platyhelminthes** 

What Class does this organism belong to?

**Class Trematoda** 

What kind of body cavity does this organism have?

**Acoelomate** 

Name the structures at the pointers:

A: Mouth

**B:** Oral Sucker

C: Pharynx

**D: Esophagus** 

E: Intestine

F: Ventral Sucker

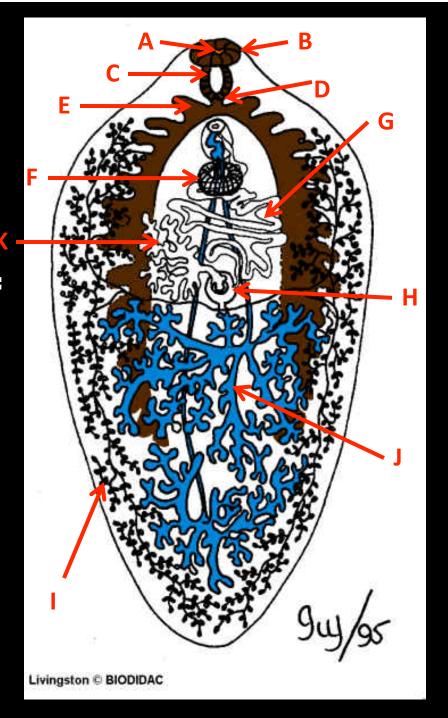
**G: Uterus with eggs** 

H: Shell Gland

I: Yolk Gland

**J: Testis** 

**K:** Ovary



**Phylum Platyhelminthes** 

What Class does this organism belong to?

**Class Trematoda** 

What kind of body cavity does this organism have?

**Acoelomate** 

Name the structures at the pointers:

A: Mouth

**B: Oral Sucker** 

C: Pharynx

**D:** Esophagus

**E: Intestine** 

F: Ventral Sucker

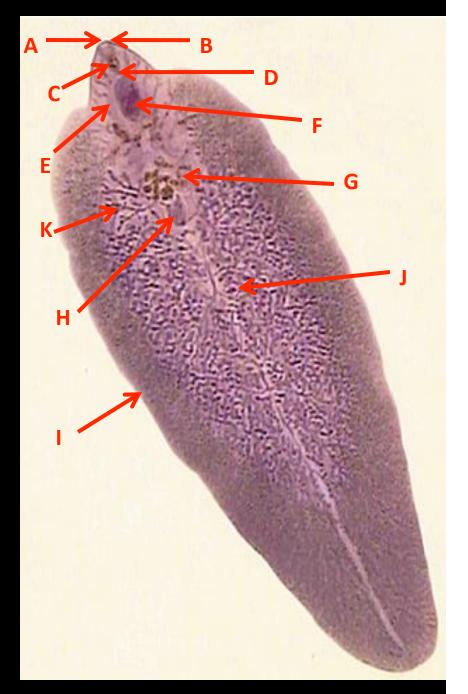
**G: Uterus with eggs** 

H: Shell Gland

I: Yolk Gland

**J: Testis** 

**K:** Ovary



## **Phylum Platyhelminthes**

What Class does this organism belong to?

## **Class Trematoda**

What kind of body cavity does this organism have?

#### **Acoelomate**

Name the structures at the

pointers:

A: Mouth

**B: Oral Sucker** 

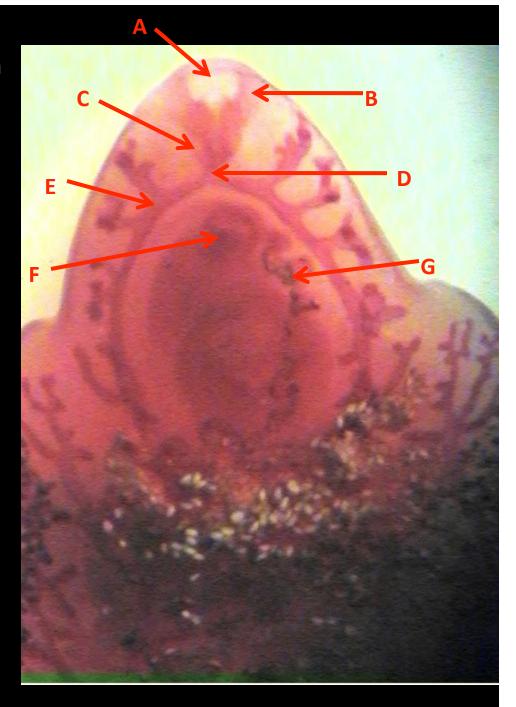
C: Pharynx

**D: Esophagus** 

**E: Intestine** 

F: Ventral Sucker

**G: Uterus with eggs** 



# **Phylum Platyhelminthes**

What Class does this organism belong to?

## **Class Trematoda**

What kind of body cavity does this organism have?

## Acoelomate

Name the structures at the pointers:

A: Uterus with eggs

B: Shell Gland C: Yolk Gland

D: Testis E: Ovary



**Phylum Platyhelminthes** 

What Class does this organism belong to?

**Class Trematoda** 

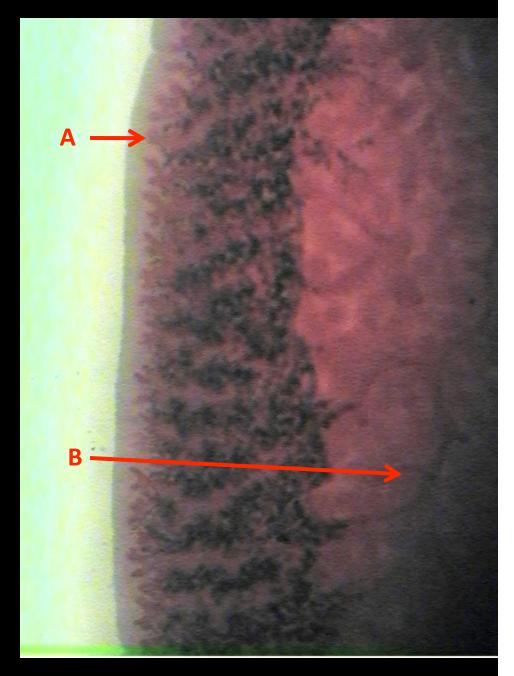
What kind of body cavity does this organism have?

**Acoelomate** 

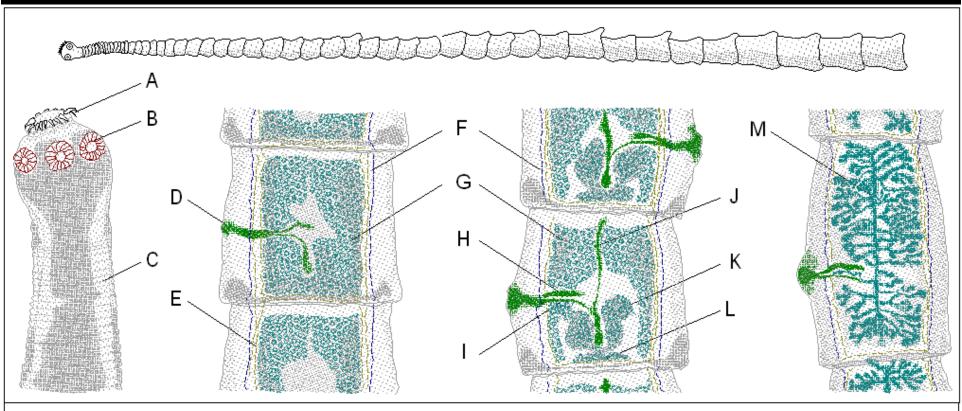
Name the structures at the pointers:

A: Yolk Gland

**B: Testis** 



## Structures of the Tapeworm Phylum Platyhelminthes, Class Cestoidea



- A) HOOKS ON SCOLEX
- B) SUCKERS
- C) YOUNG PROGLOTTIDS
- D) GENITAL PORE
- E) EXCRETORY CANAL

- F) NERVE CORD
- G) TESTES
- H) SPERM DUCT
- I) VAGINA
- J) UTERUS

- K) OVARY
- L) YOLK GLAND
- M) UTERUS WITH EGGS

**Phylum Platyhelminthes** 

What Class does this organism belong to?

**Class Cestoidea** 

What is the name of this structure?

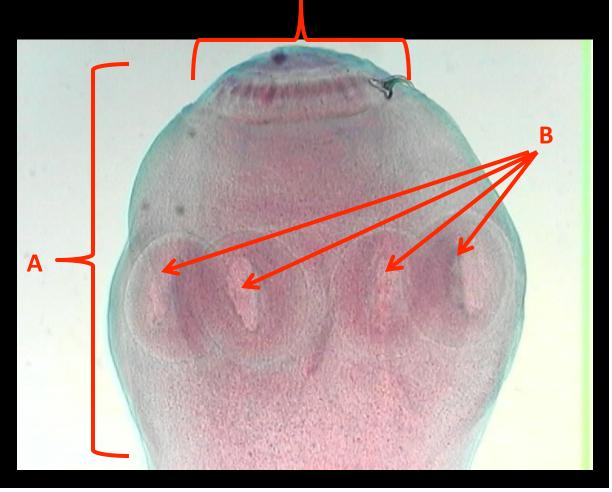
Scolex

Name the structures at the pointers:

A: Scolex

**B:** Suckers

C: Rostellum with hooks



## **Phylum Platyhelminthes**

What Class does this organism belong to?

## **Class Cestoidea**

What is the name of this structure?

**Proglottids** 

Name the structures at the pointers:

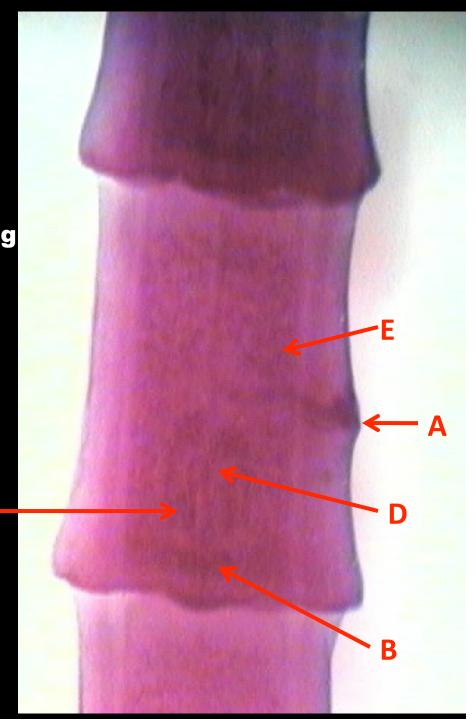
**A: Genital Pore** 

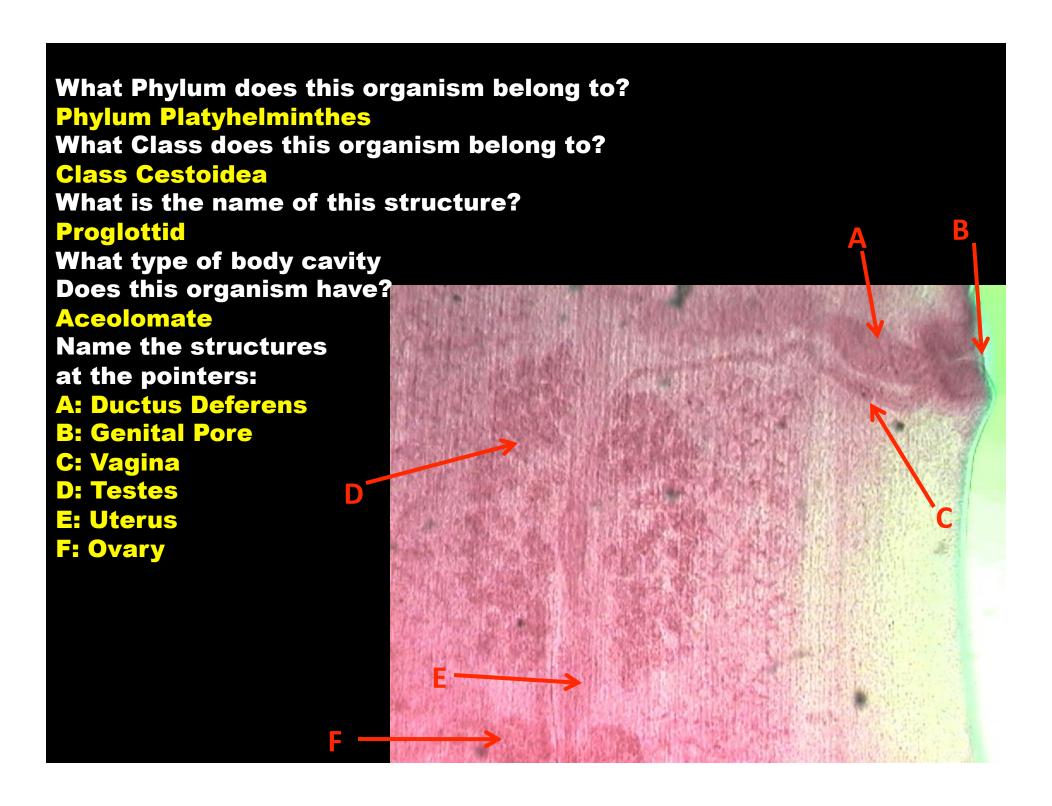
**B: Yolk Gland** 

C: Ovaries

**D:** Uterus

E: Testes





**Phylum Nematoda** 

What type of body cavity does this organism have?

**Pseudocoelomate** 

Name the structures at the pointers:

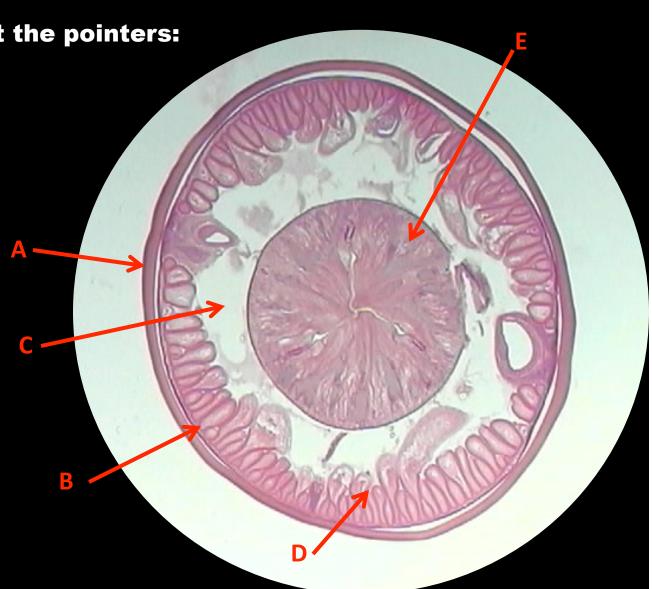
A: Cuticle

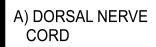
**B: Epidermis** 

C: Pseudocoel

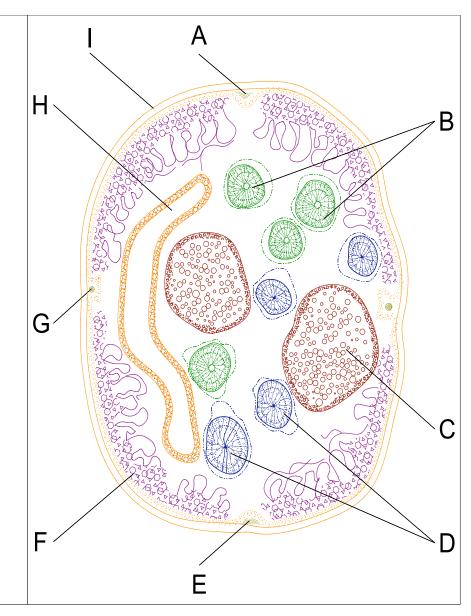
**D: Longitudinal Muscle** 

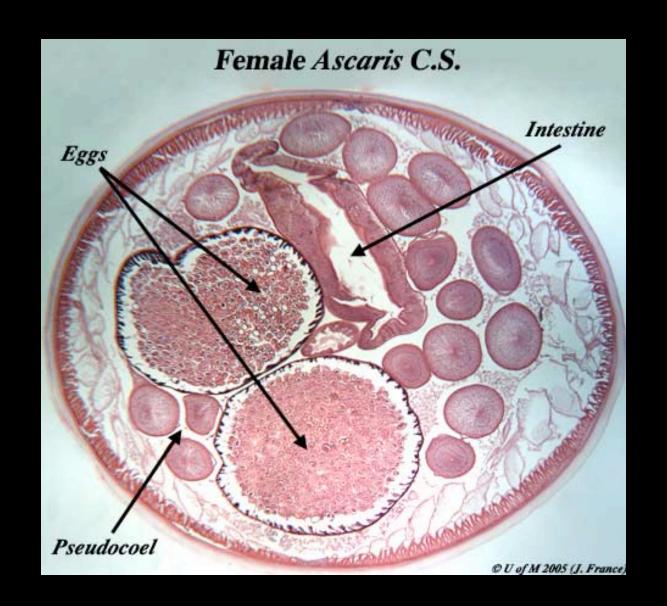
**E:** intestines

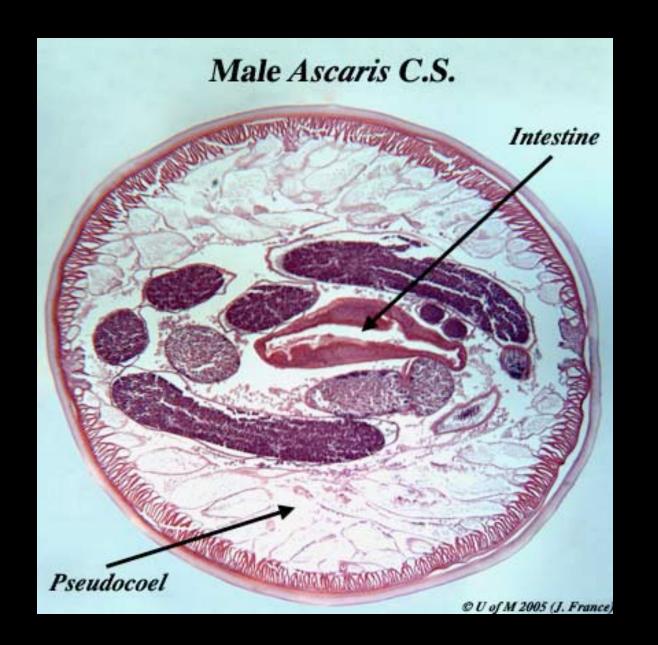




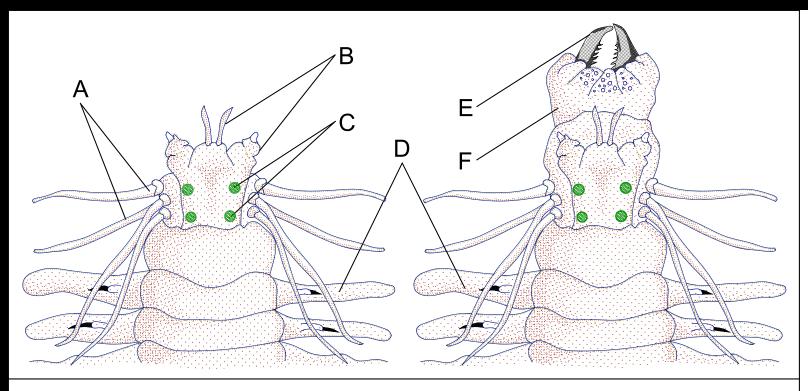
- B) OVIDUCTS
- C) UTERUS WITH EGGS
- D) OVARIES
- E) VENTRAL NERVE CORD
- F) LONGITUDINAL MUSCLES
- G) LATERAL LINE
- H) INTESTINE
- I) CUTICLE WITH UNDERLYING HYPODERMIS





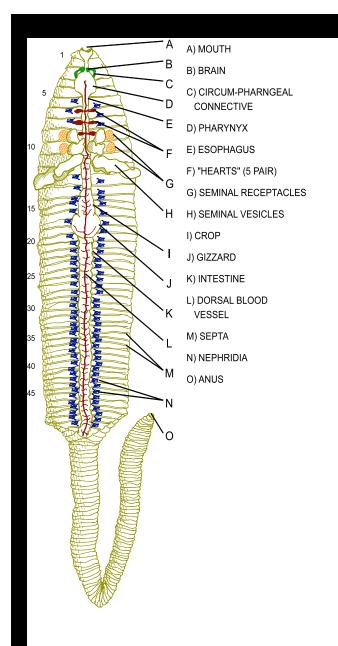




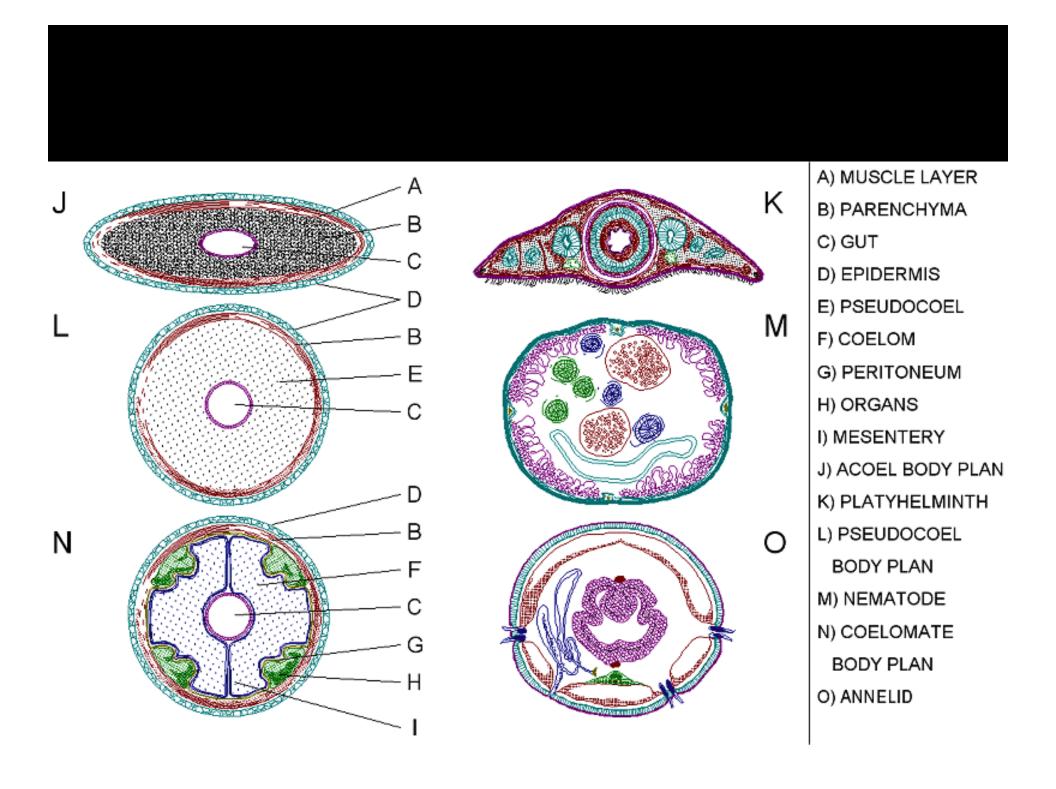


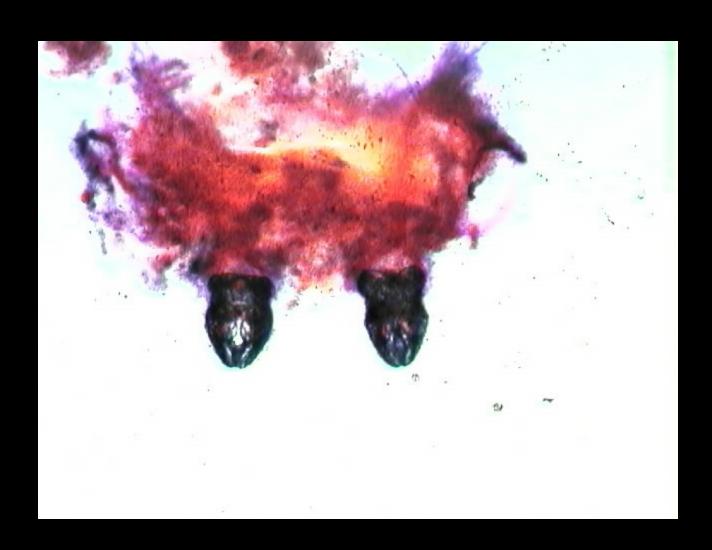
- A) TENTACLES
- B) SENSORY PAPILLAE
- C) EYES

- D) PARAPODIA
- E) JAWS
- F) EVERTED PHARYNX

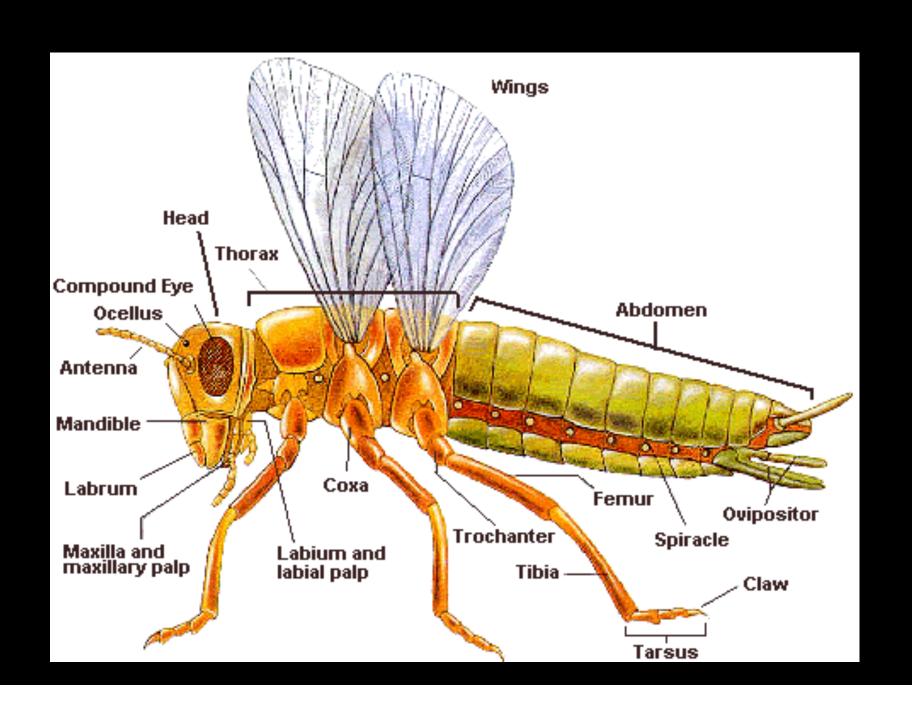


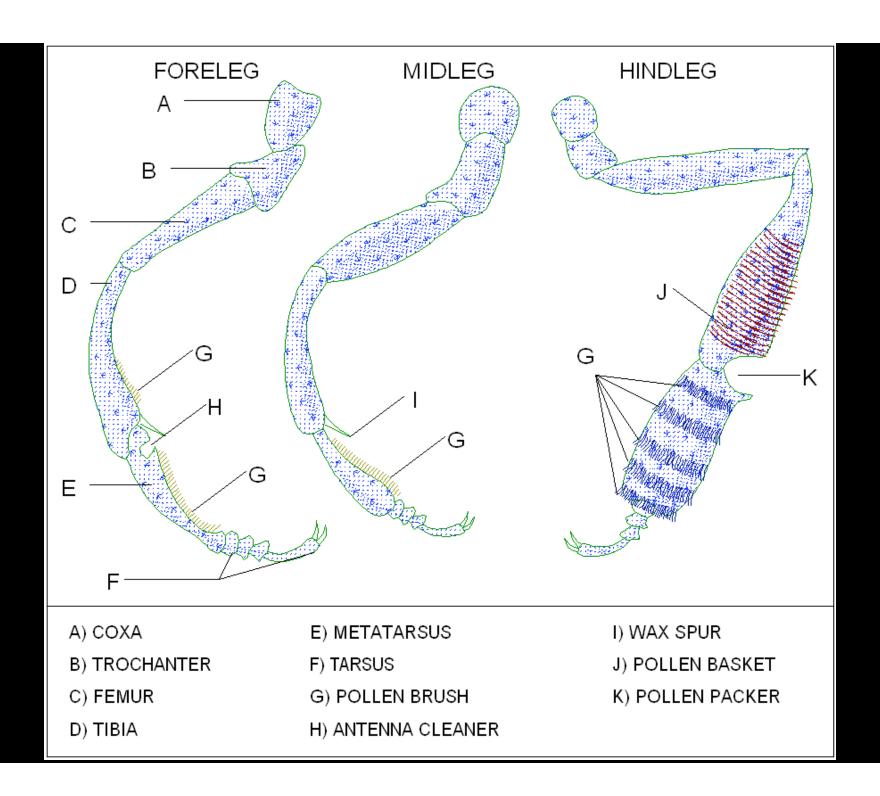


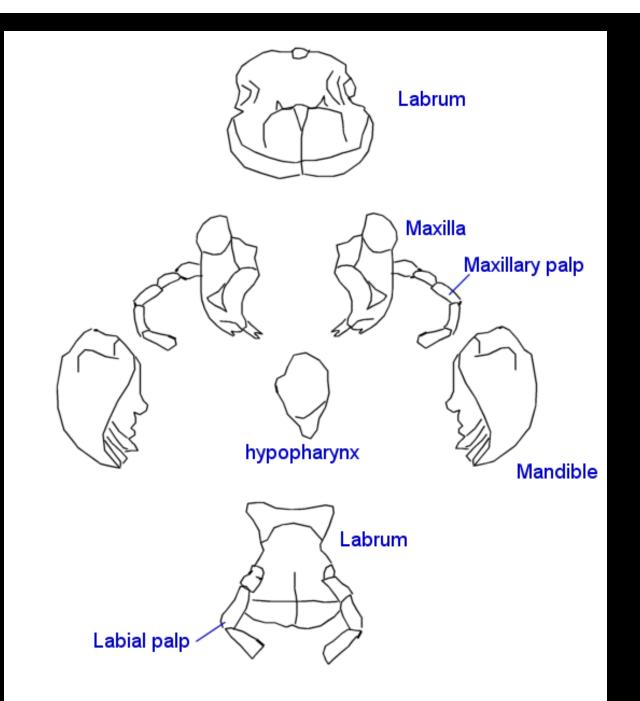


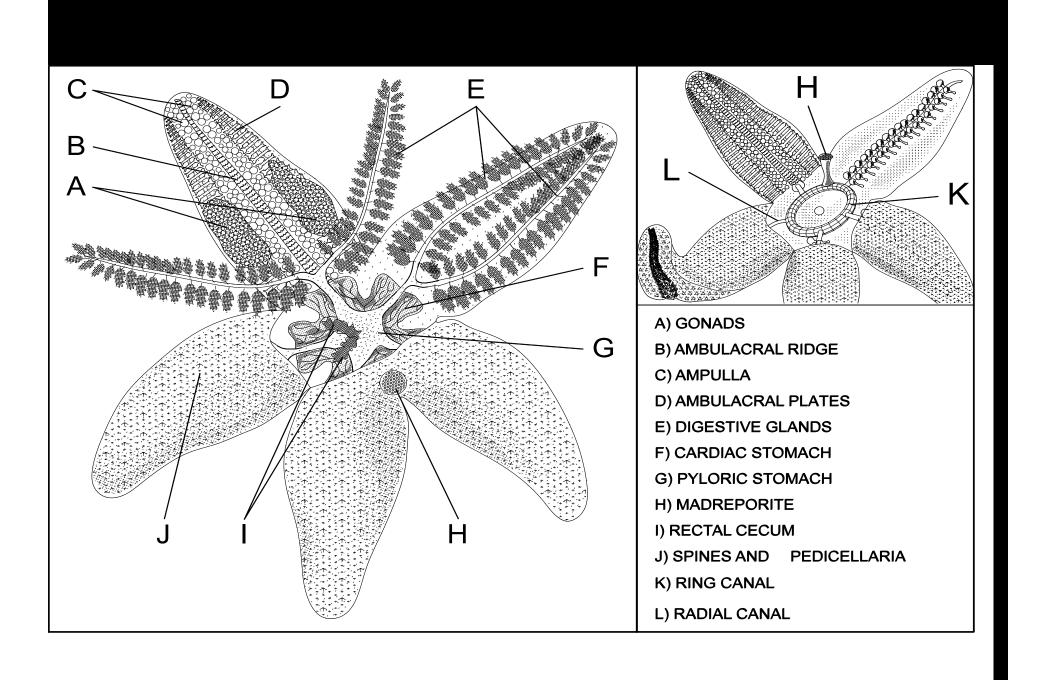


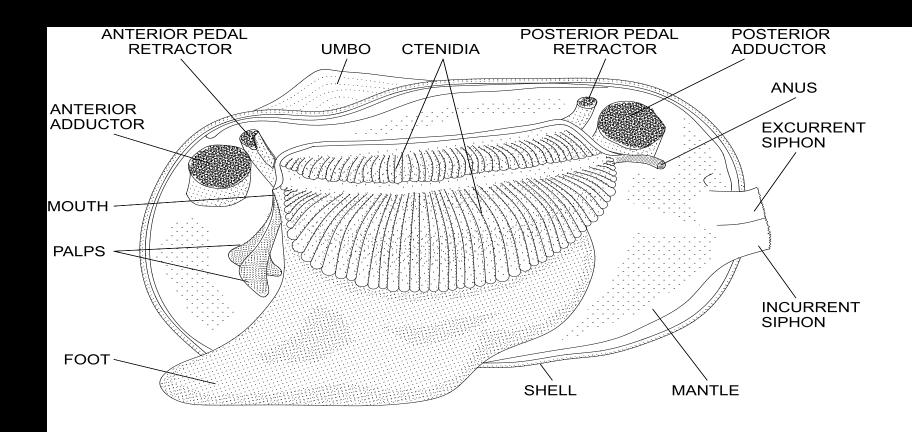


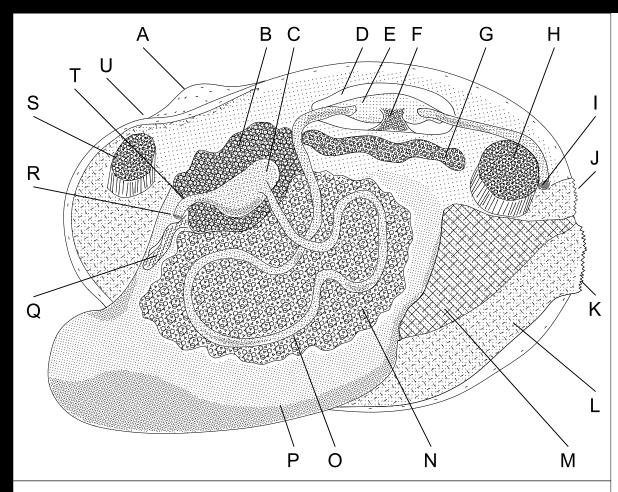










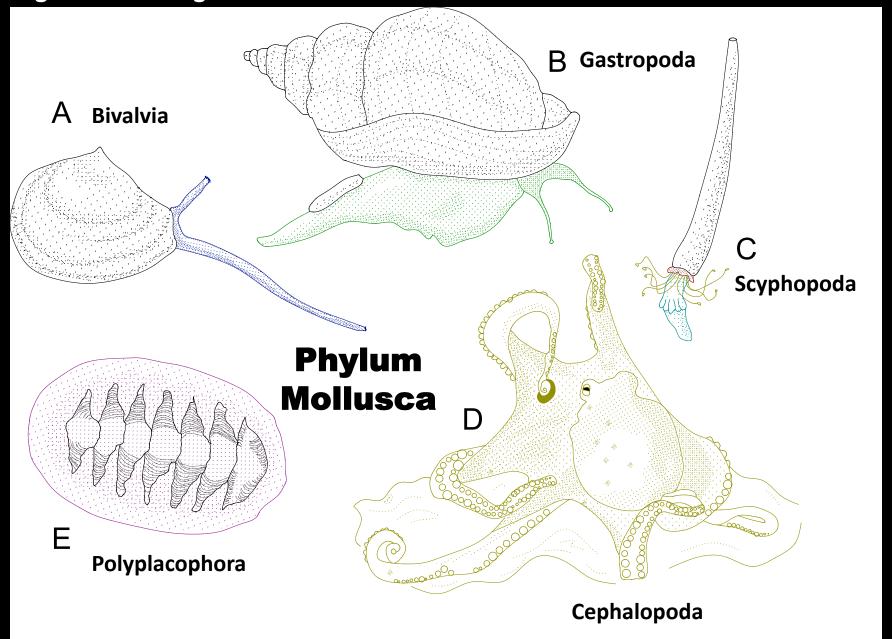


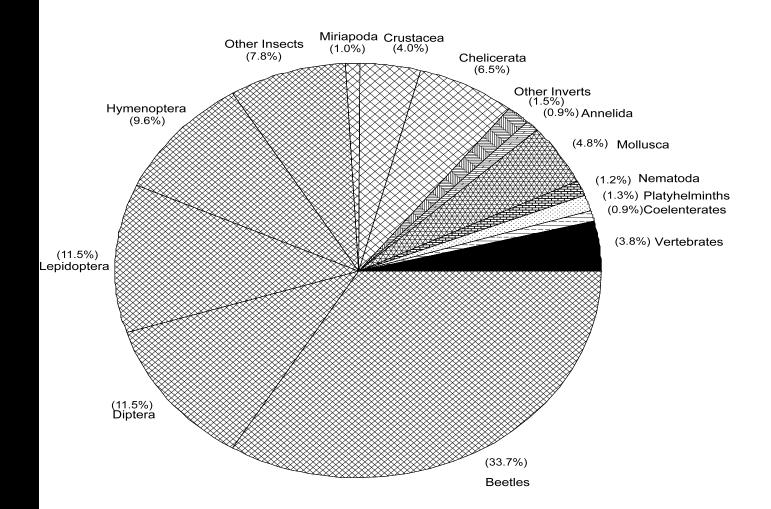
- A) UMBO
- B) DIGESTIVE GLAND
- C) STOMACH
- D) PERICARDIUM
- E) VENTRICLE
- F) AURICLE
- G) KIDNEY

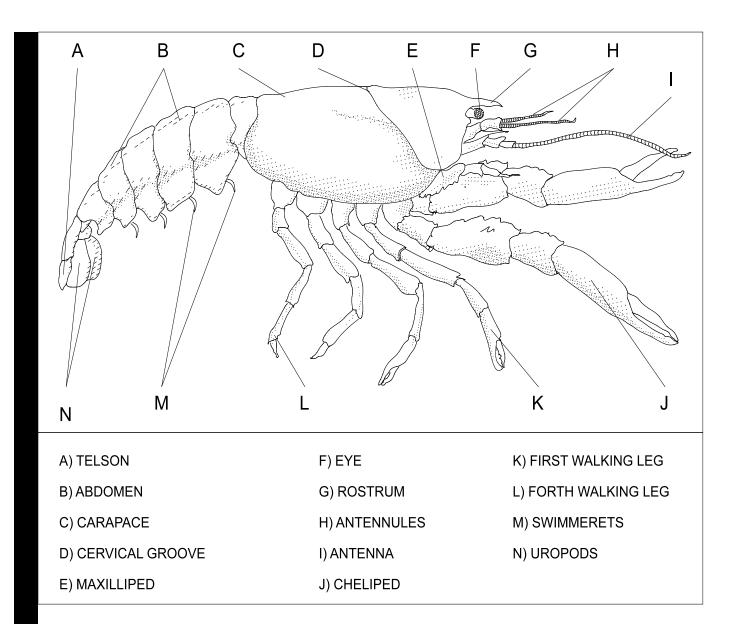
- H) POSTERIOR ADDUCTOR
- I) ANUS
- J) EXCURRENT SIPHON
- K) INCURRENT SIPHON
- L) MANTLE
- M) GILL
- N) DIGESTIVE GLAND

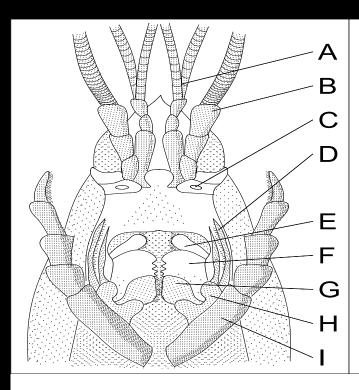
- O) INTESTINE
- P) FOOT
- Q) PALPS
- R) MOUTH
- S) ANTERIOR ADDUCTOR
- T) ESOPHAGUS

Name the classes of the following organisms. What Phylum do these organisms belong to?

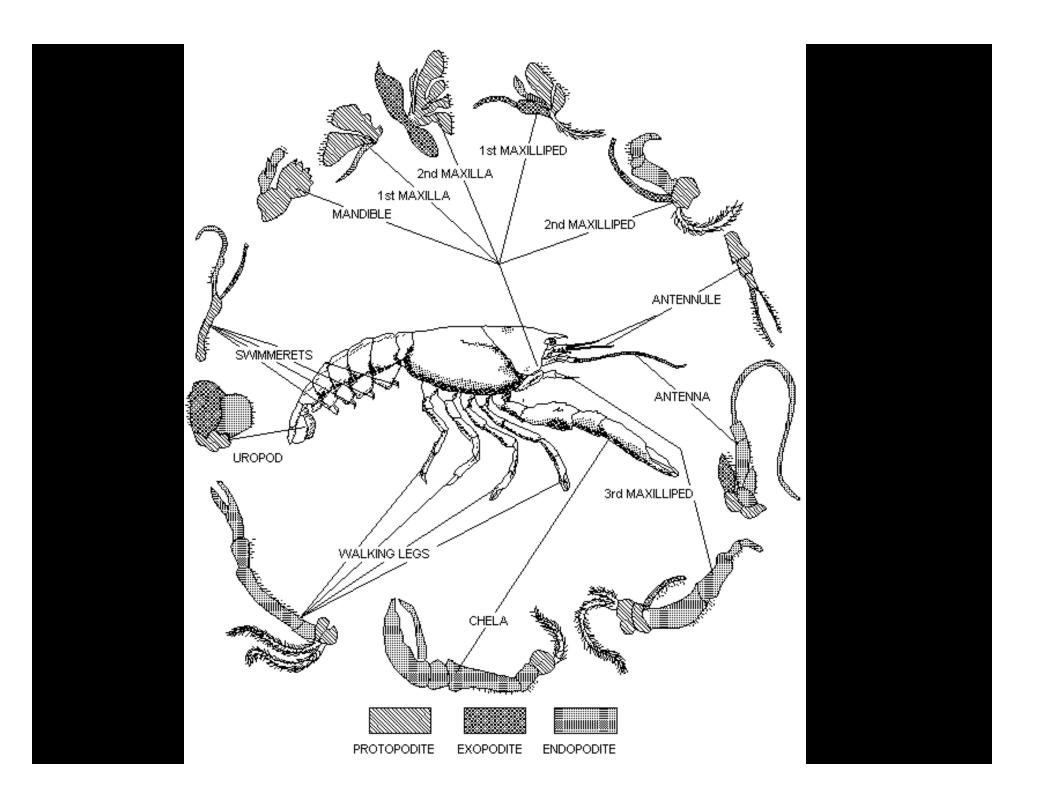


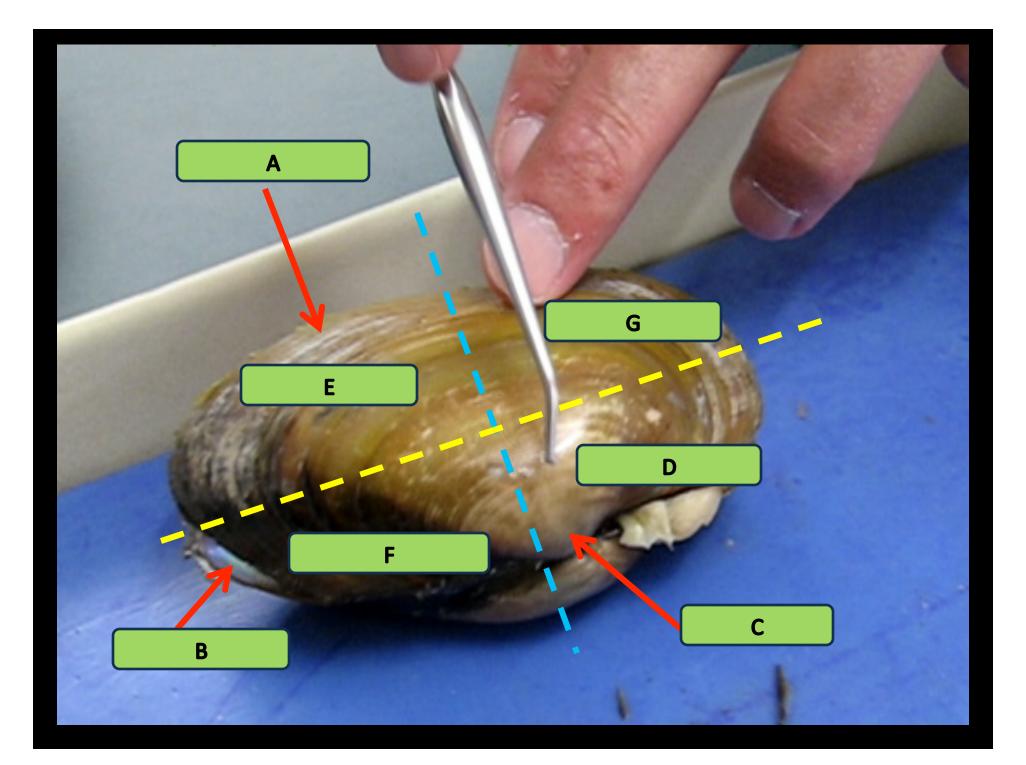


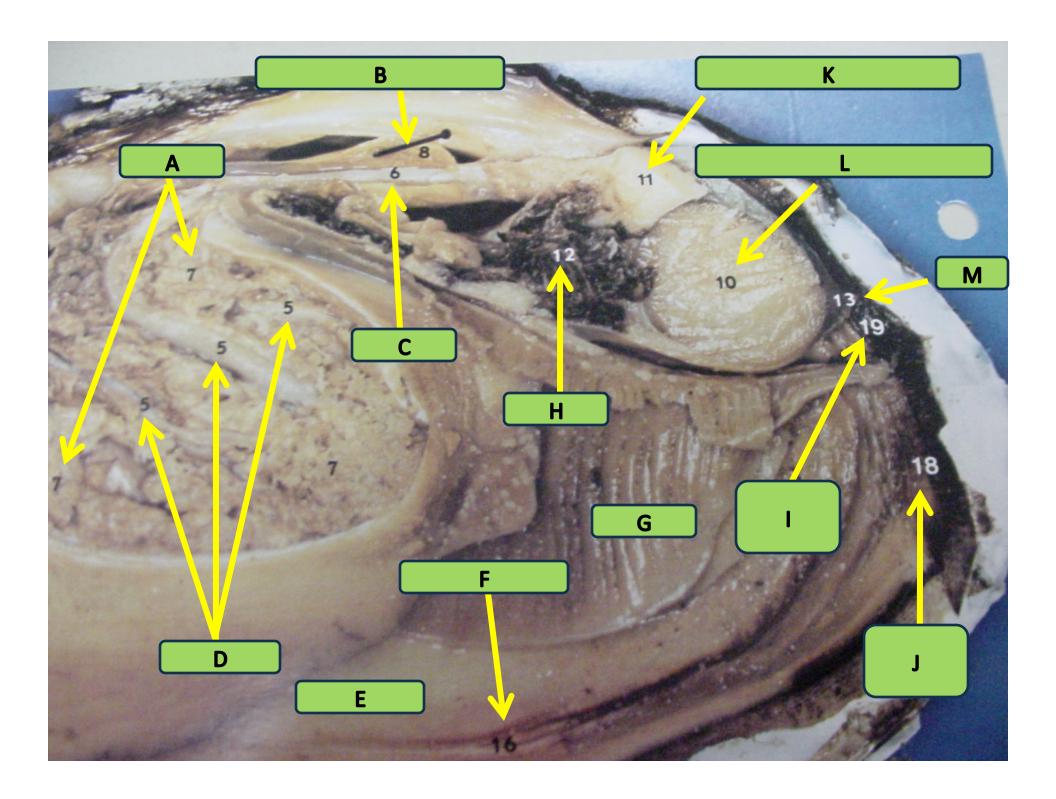


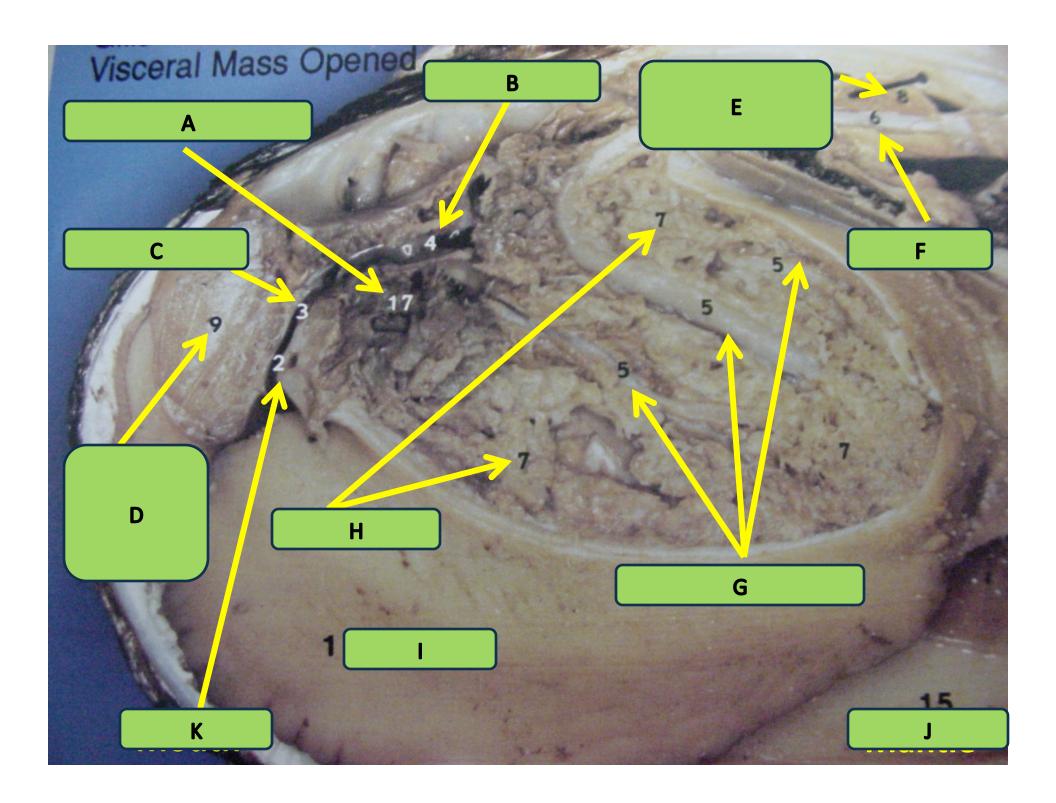


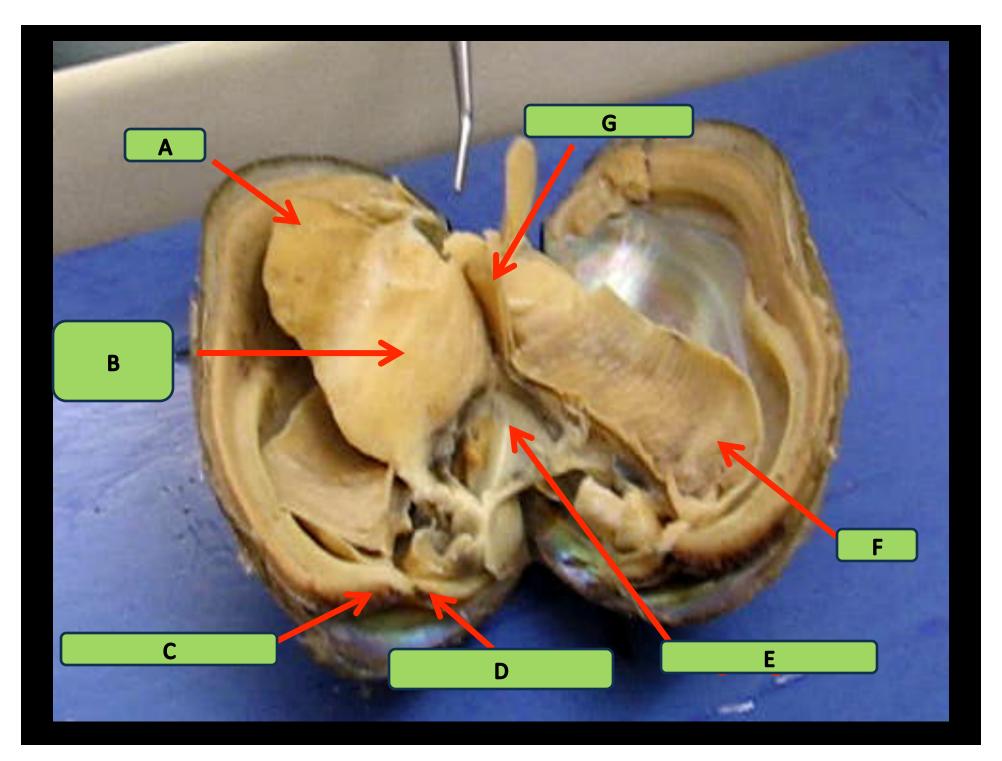
- A) ANTENNULE
- B) ANTENNA
- C) RENAL PORE
- D) FIRST MAXILLIPED
- E) PALP OF MANDIBLE
- F) MANDIBLE
- G) FIRST MAXILLA
- H) SECOND MAXILLA
- I) THIRD MAXILLA

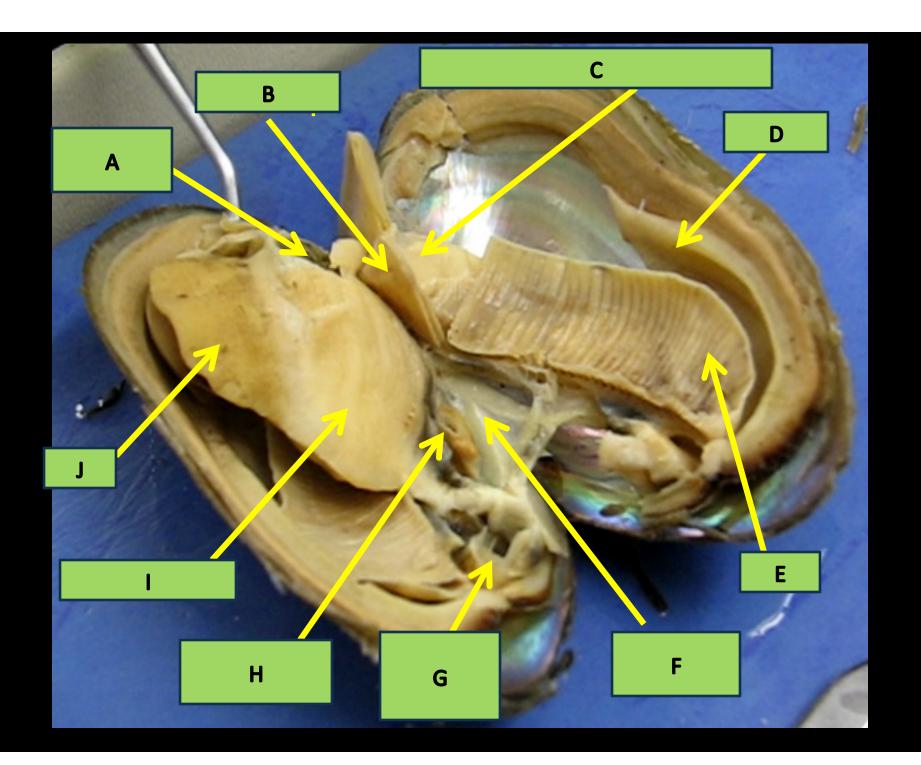


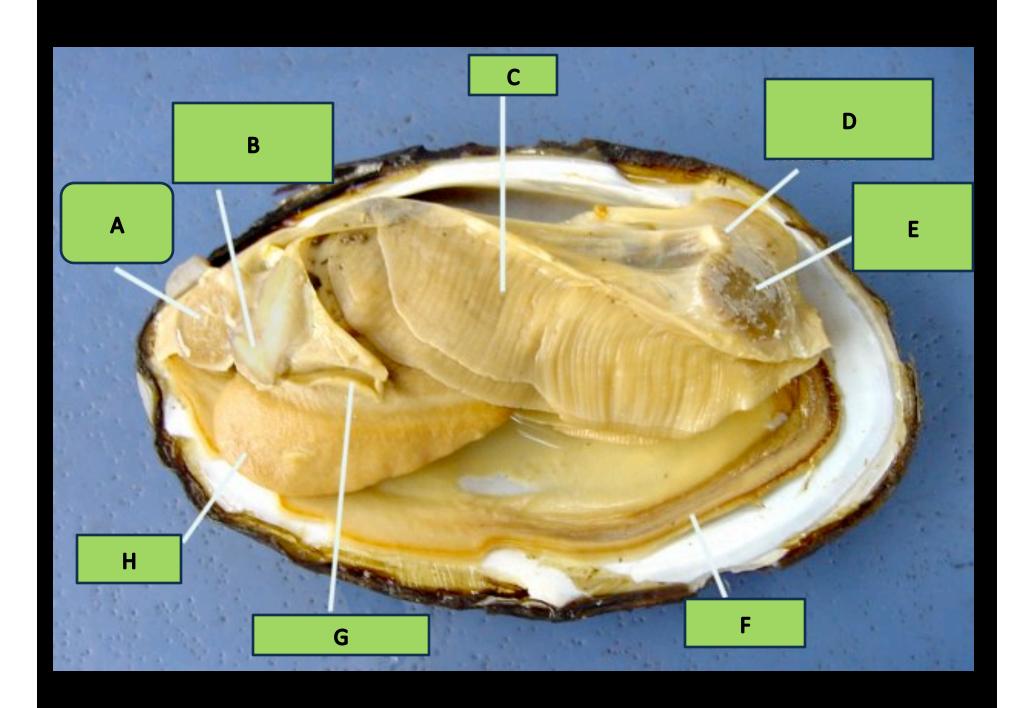


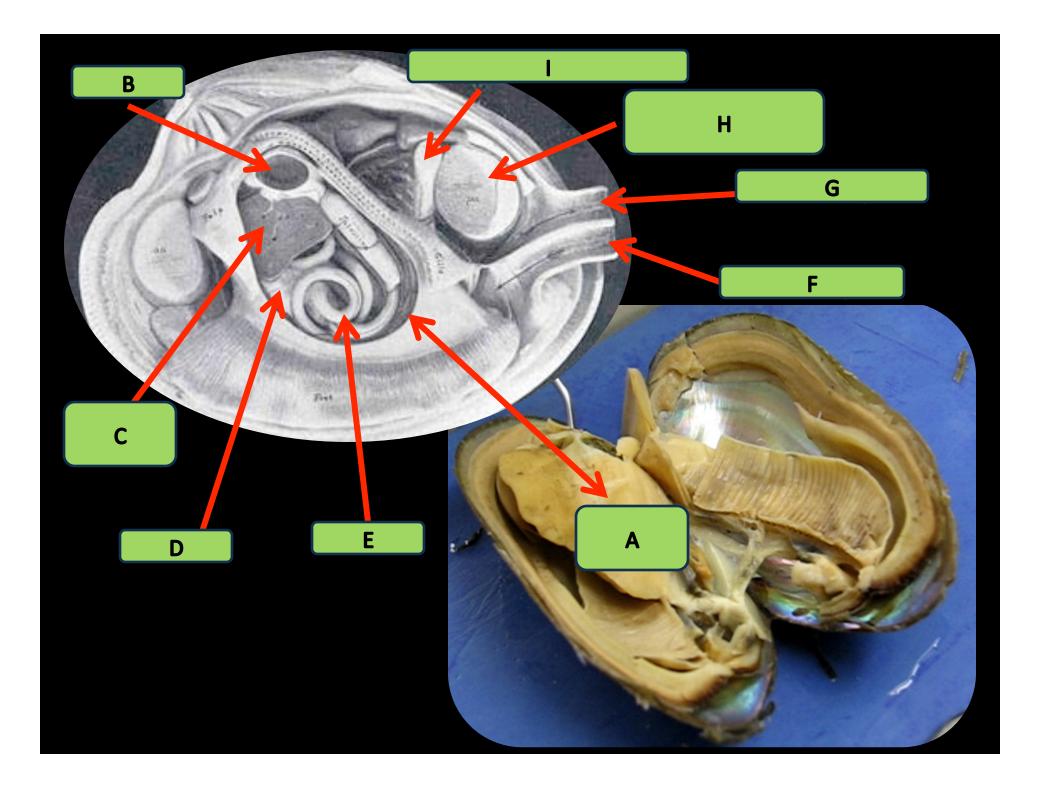


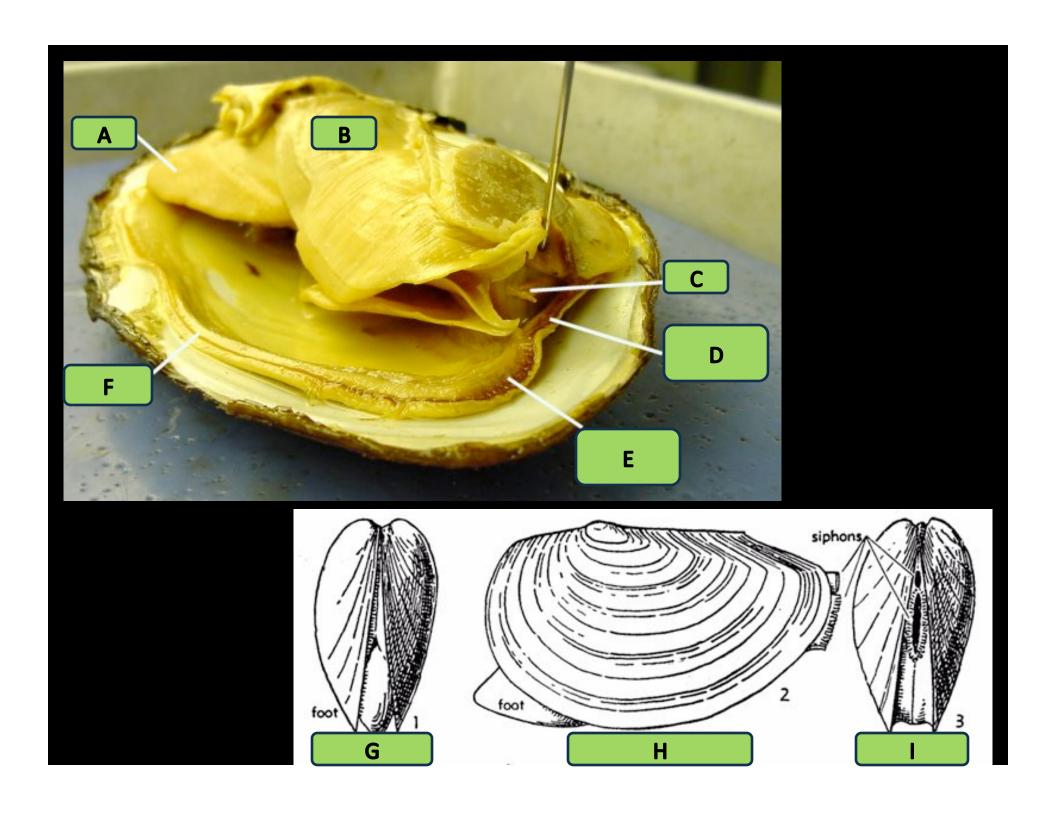












- A. Seminal Receptacles
- B. Crop
- C. Gizzard
- **D.** Instestines
- E. Dorsal Blood Vessel
- F. Seminal Vesicles
- G. Clitellum
- H. Cerebral Ganglion
- I. Mouth
- J. Esophagus
- **K.** Aortic arches
- L. Metanephridia

