**Aquatic Invertebrate**

**LAB (6)**

**Phylum : Arthropoda**

**Sub phylum : Chelicerata**

**1-Class : Merostomata**

**Order : Xiphosura**

**Genus : *Limulus* sp.**

**2-Class : Pycnogonida**

**Order : pantopoda**

**Genus : *Nymphon* sp.**

**Sub phylum : Chelicerata**

- head lack antennae and mandibles

-the body is divided into two region : ananterior cephalothorax (prosoma) and a posterior abdomen (opisthosoma)

- prosoma have two anterior appendages before the mouth called chelicerae and pedipalp for feeding and four pairs of walking legs

**Subphylum: Crustacea**

**-** head with two pairs of antennae and one pair of mandibles

- Body is divided into three regions: head,thorax and abdomen

- Thoracic segments bears five pairs of walking legs

**Genus : *Limulus* (horseshoe crab)**

-The body is divided into an anterior cephalothorax protected by a hard dorsal carapace and posterior abdomen with long straight tail called telson

-It has two compound lateral eyes and seven secondary simple eyes , five eyes on top of its shell and two eyes on the underside

-The mouth is located in the center of the second pair of legs

-Has five pairs of legs for walking , swimming and moving food in to the mouth, each with a claw at the tip except for the last pair

-Underside of the abdomen have six pairs of gill book for respiration



*Limulus*



**Genus : *Nymphon* sp. (sea spider)**

-small and thin bodies with four pairs of long walking legs posterior to the pair of chelicerae and pair of palps

-the head bears a posterior pair of ovigers used by male to carry fertilized eggs

-head with sucking mouth that opens at the tip of elongated proboscis and four simple eyes





*Nymphon* sp.