Name: KEY
Zoology Test #5 STUDY GUIDE: Arthropods and Early Chordates
1. What are the three body segments of an arthropod? Head, thorax, abdoment
2. What is a cephalothorax? What organisms have one?  A fised head thorax Spiders
3. What is the role of the exoskeleton? What is the exoskeleton made of?  Supput of protection Chitin
4. Eccysia is the periodic shedding of the exoskeleton and is necessary as the arthropod grows.
5. Why are arthropods are particularly vulnerable after molting?  Because the New exoskeleton is still soft
6. What type of circulatory system do arthropods have?
7. What type of eyes do arthropods have? Compound
8. Spinneret produces the webs in a spider
9. What are the three different types of appendages in spiders?  Ocheticerae - Claws / Tangs - I pair  2 Redipolps - Feeding / Sensing - I pair  3 Walling Legs - Movement - 4 pairs  10. Crustaceans have mouths composed of a pair of Mulibules used for chewing and tearing.
11. Decapods such as lobsters have how many appendages? /O
12. Explain the difference between a millipede and a centipede.  Millipede: nord body, 2 pais of legs per segment
Centipede: Flat body, I pair of legs per segment, can be venom as
13. The organisms in the class insecta have all of their appendages attached to which part of the body?
Thorax

14. List the stages of complete metamorphosis in order:
Larva > Pupa > Adult
15. List the stages of incomplete metamorphosis in order:
Egg > Nymph > Adult
16. Explain the social structure of bees:
Queen - lay eggs
Drones - Males That Termales
Overn-lay eggs Drones - moles that Pertilize eggs Workers - all infertile females
17. Provide the subphylum for the following species:
Spiders Chelicerute Millipedes Miramia
Centipede Univamia Lobster Crustacea
Roly-Polys Crustacea Ladybug University  Ladybug University
Ants <u>Universita</u> Ticks <u>Chelicerate</u>
18. What type of symmetry do chordates have? Bilateral
19. Explain the role of each of the following:
19. Explain the role of each of the following:  a. Dorsal Nerve Cord - Responsible for senses, perception, motor responsed  - Expands antenity as the brain
b. Pharyngeal pouches tract fortside
b. Pharyngeal pouches - Openings between digestive tract toutside
c. Notochord -used for support  d. nostanal tail.
pouches
n +: 1 that is docat
Supported by notochurd or nerve cord
Supported by notochurd or vertebrul column
20. Label this diagram:
pusturel tuil
Tul
embryonic chordate
1 Joseph Land Land
21. Sea squirts subphylum: WChordata
22. Lancelets subphylum: Cephlachordata