Study guide for Nemertean and Annelida 2022 Answer questions in red for Homework

Nemertea

1. Be able to compare Nemerteans to free living flatworms in morphology. How closely related are they?
2. What specialization is there in the nemertean digestive system?
3. a. Describe their proboscis. b. What is the function of the proboscis?
4. What are imaginal discs?
5. What is known about the phylogeny of Nemertea?

Annelida

1. What is meant by a tube within a tube body construction?
2. How does an earthworm move? Be able to describe the role of segments, setae and other structures in locomotion. How do polychaetes move?
3. Compare Hirudineans to Oligochaetes.
4. How are leeches used in medicine?
5. Be able to describe adaptation in sanguivorous species of leeches for their life style.
6. Be able to compare Oligochaetes to Polychaetes structurally. a. For example what is a clitellum and what groups have this structure? b. What group possesses more elaborate respiratory systems?
7. What are metanephridia ?
8. Be able to give examples of different methods of obtaining nutrients in polychaetes.
9. Be able to describe reproduction in Clitellids and Polychaetes. What groups are hermaphroditic?
10. What is an epitoke?
11. Describe reproduction in Palolo worms.