Marine Invertebrates (Chapter 7) Test Review

Terms to know

Aboral surface

Asexual reproduction

assymetrical

Bilateral symmetry

Calcareous

Carapace

Carnivore

Central nervous system

Deposit feeder

Dorsal surface

Foot (as of a mollusc)

Hermaphrodite

Invertebrate

Mantle

Medusa

Motile

Oral surface

Polyp

Radial symmetry

Sessile

Tube feet

Valve

Ventral surface

General Characteristics to know:

* Eukaryotic, multicellular with at least a tissue-level organization
* Heterotrophic (non-photosynthetic)
* Require oxygen for aerobic respiration
* Most are motile at least during part of their life cycle

Practicum:

* Be able to identify if a shell is from a bivalve, a gastropod, an arthropod, or an echinoderm
* Be able to identify anatomical features (both internal and external) of a sea star and urchin, a sea jelly, a mollusk.

Phyla to know (study table 7.1 in the book! ) FILL IN TABLE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Phylum | Examples | Body Plan(symmetry, etc) | Distinguishing Features | Significant / interesting Fact |
| Porifera | Sponges | Assymetrical |  | Filter feeders |
| Cnidarians | Sea JelliesAnemonescorals | Radial symmetry | Tentacles with nematocysts | Have both medusa and polyp stages in life cycle |
| Ctenophora | Comb Jellies |  | Ciliary combs, colloblasts, | Invasive species  |
| Mollusca | (know at least 4) |  |  |  |
| Arthropoda | (know at least 2) |  |  |  |
| Echinodermata | (know at least 3) |  |  |  |