

INVERTEBRATE ANIMALS.

WEDNESDAY, APRIL 4TH, 1883.

Examiner,.....J. W. DAWSON, LL.D.

Time, 3 Hours.

1. Describe the structures of a typical Rhizopod, and state the differences of the skeleton in *Rhizopoda* and *Porifera*.
2. In the class Hydrozoa describe two animals representing the two principal orders.
3. Describe or figure the animals which produce Madrepor Corals, Sea Fans and the Red Coral of commerce.
4. Describe the tube-feet and jaws of an *Echinus*, and the arms of a Star-fish and Crinoid.
5. Describe the anatomy of *Ostrea* or *Mytilus*, and the structure of shell and pearl.
6. State the characters of the *Gastropoda*, and the differences between Prosobranchiates, Pulmonates and Pteropods.
7. State the special characters of *Cephalopoda*, and describe the shell of a *Nautilus* and the arms of a *Loligo*.
8. What is the highest sub-class of the *Crustacea*, and how is it subdivided? Describe the oral and sensory organs of any common species.
9. State the characters of the *Annelida*, and describe any typical example.
10. Describe the external parts of a Hexapod Insect, and the stages of its metamorphosis.
11. What structures are indicated by the following terms :—

Cilia,
Corallum,
Pedicellaria,
Lingual Ribbon,
Tentacle,
Tracheae,

and in what animals are these structures found?

12. State what you know of the classification, structures and habits of the animals exhibited.

Note: The examiner would wish the students to answer, as clearly and correctly as possible, questions 1 to 10 and to devote such time as may remain to questions 11 and 12.