

PLATE XLVII.

Figs. 1, 2. *Molgula carpenteri*, n. sp.

Figs. 3-5. *Polycarpa aspera*, n. sp.

Fig. 6. *Bathyoncus discoideus*, n. sp.

Figs. 7-10. *Bathyoncus minutus*, n. sp.

Fig. 11. *Ascidia scabra* (?), O. F. Müller.

*at.* Atrial aperture.  
*br.* Branchial aperture.  
*g.* Reproductive organs.  
*i.* Intestine.

*m.b.* Muscle bands.  
*æ.* Esophagus.  
*sg.* Stigmata of branchial sac.  
*st.* Stomach.

*tn, tn'.* Large and small tentacles.  
*tr, tr', tr''.* Transverse vessels of branchial sac.

- Fig. 1. Specimen of *Molgula carpenteri*, seen from side ; natural size.
- Fig. 2. Part of the branchial sac of *Molgula carpenteri*, seen from the inside ; magnified (S., 1 inch).
- Fig. 3. Specimen of *Polycarpa aspera* ; natural size:
- Fig. 4. Part of the branchial sac of *Polycarpa aspera*, seen from inside ; magnified (S., 1 inch).
- Fig. 5. Tentacles of *Polycarpa aspera* ; magnified (S., 1 inch).
- Fig. 6. Diagram showing the course of the alimentary canal in *Bathyoncus discoideus* ; natural size.
- Fig. 7. Specimen of *Bathyoncus minutus* ; natural size.
- Fig. 8. Alimentary canal of *Bathyoncus minutus* ; magnified (S., 1 inch, reduced).
- Fig. 9. Branchial aperture, &c., of *Bathyoncus minutus*, seen from the inside, showing tentacles, muscle bands, &c. ; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 10. Atrial aperture, &c., of *Bathyoncus minutus*, seen from the inside, showing muscle bands ; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 11. Specimen of *Ascidia scabra* (?), O. F. Müller, with test removed, seen from right hand side, showing enlarged atrial siphon ; natural size.