

plate (*e*), teeth (*d''*), under arm plate (*h*), first under arm plate (*h'*); lip, or marginal membrane of the mouth (*m*), tentacle scale (*q*), scale of the second mouth tentacle (*q'*) (the dotted line ends on a retracted tentacle); the papillose tentacle (*r*), second mouth tentacle(*r''*).

- Fig. 14. *Hemipholis cordifera*, Lym., about $1\frac{2}{1}^0$. Longitudinal section of a tentacle, showing it to be hollow but imperforate. Professor Clark notes three component membranes, or layers; and the peculiar (muscular?) spiral semi-partitions, whose function is doubtless to retract the organ.
- „ 15. „ „ about $1\frac{2}{1}^0$. Part of a tentacle, showing the rounded end and the papillæ.
- „ 16. „ „ An egg taken from the animal in January, Professor Clark notes that it has a bluish-grey appearance, and is densely filled with minute yolk-granules.

PLATE XLV.

(For further observations see the descriptions of the genera and species referred to.)

- Fig. 1. *Ophioglypha hexactis*, E. A. Smith, ♂. Vertical cross-cut of a large viviparous ♀ parallel to and a little beside the axis of one arm, and through the edge of the opposite interbrachial space. Above are seen two young (*Y, Y'*) with fragments of arms cut off belonging to them, or to others. One is a tip (near *Y*) showing the terminal tentacle tube. Threads (*Sm*) from the roof, supporting the digestive empty cavity; fold of a bursa (*δ*); section of the aboral, or marginal canal (*lb*), to the left of which is the abductor muscle through whose bundles is thrust the tip of the arm of a young, here seen in section; a portion of the genital scale cut lengthwise (*n*); genital plate (*o*); lower part of the ovarian bursa (*δ*); a fold of the digestive cavity pressing into the bursa (*St*); spines attached to slice of a side arm plate (*p, p*); section of part of the inter-mouth frame muscle (*f, m*); water ring (*f, b*); inner perihæmal canal (*f, c*); canal of the ring nerve (*u*), a section of which is below, while above is seen the smaller