

- Fig. 12. $1\frac{5}{1}$. Lower side of fig. 11, showing the triple under arm plate (*h*).
- „ 13. $1\frac{0}{1}$. A grain of the arm, from a terminal twig, bearing a rudimentary hook, which has not yet begun to bend, and exhibits its building by irregular lime spicules.
- „ 14. $1\frac{2}{1}$. A tentacle hook from near the tip of a twig, in profile, showing the holes of growth, which indicate its formation by two parallel spiculæ. (See also Bull. Mus. Comp. Zool., vol. iii. part 10, pl. iii. fig. 10.)
- „ 15. $4\frac{0}{1}$. Last fork of the arm, from above. The delicate, tuberculated scaling is a further growth of that shown in fig. 7. One tentacle hook may be seen on each side arm plate.
- „ 16. $4\frac{0}{1}$. The same fork, from below, showing the large side arm plates meeting on the median line.
- „ 17. $1\frac{2}{1}$. Two angles of the disk of a very young specimen, from below. The plates of the interbrachial space (see fig. 2), as well as those of the back, are covered by a granulation, which does not, however, hide the genital plate and scale (*o*, *n*) nor the single madreporic shield (*a*). The large side arm plates (*i*) carry tentacle scales, which have changed from the form of hooks (figs. 10) to that of rough-ended spines the triple under arm plates (*h*, *h*); the first one is, however, single; side mouth shield (*b*), jaw (*c*), jaw plate (*e*), tooth papillæ (*d'*).
- „ 18. $2\frac{0}{1}$. The skeleton of two mouth angles, from above, and of the intervening arm with the genital plates (*o*). Between their inner ends begin the mouth frames (*f*), outside which are two arm bones; peristomial plates (*v*), divided in halves; a division more or less observable also in the adult, and differing from the single bone in *Euryale aspera* (Pl. XXXV. fig. 2, *v*). The small angle piece sometimes considered the first under arm plate (*v'*), jaw (*c*), jaw plate (*e*), tooth papillæ in a single row (*d'*), mouth tentacles of the first and second pairs, dried and shrivelled (*r'*, *r''*).
- „ 19. $\frac{4}{1}$. Mouth angle of an adult, with the base of an arm, and the madreporic shield (*a*), side mouth shield (*b*), jaw (*c*), jaw plate (*e*), tooth papillæ (*d'*), side arm plate divided in two (*i*), tentacle pore (*r*). The rest of the mosaic on the lower side of the arm is the broken under arm plates.

PLATE XXXVII.

Plates XXXVII.-XLIII. represent the internal hard parts, or skeletons, of Ophiurans. Their treatment is nearly uniform. One brachial and portions of the neighbouring interbrachial spaces are presented; and that part of the roof of the disk is shown as if