Lætmogone wyville-thomsoni, Théel.

Fig. 7. View of an ambulacral cavity of a dorsal process, seen from above ; most of the integument is removed. *a*, ambulacrum ; *b*, ambulacral cavity ; *d*, opening of the process into the ambulacral cavity. The process itself is cut off, only its basal portion being left.

Kolga nana, Théel.

„ 8. Half-schematic transverse section of the odd ambulacrum ; *a*, connective tissue of the integument ; *c*, longitudinal muscular band ; *d*, ambulacral vessel ; *n*, radial nerve stem.

Oneirophanta mutabilis, Théel.

„ 9. Half-schematic representation of a transverse section of a dorsal ambulacrum. *a*, inner layer of connective tissue of the integument ; *b*, transverse muscular layer ; *c*, longitudinal muscular layer ; *d*, ambulacral vessel ; *e*, thick hyaline membrane separating the ambulacral vessel from the radial nerve cord ; *f*, cavities or branches which probably belong to the ambulacral cavities of the dorsal processes ; *g*, epithelium lining the perivisceral cavity ; *n*, radial nerve cord.

PLATE XLIII.

Oneirophanta mutabilis, Théel.

Fig. 1. Longitudinal section of the head-part. *a*, main canals which combine the water-vascular ring with the tentacles and the radial ambulacral vessels ; *b*, water-vascular ring ; *c*, circular pseudhæmal vessels ; *d*, ventral pseudhæmal vessel ; *k*, calcareous ring ; *m*, elastic bands and threads ; *n*, nerve ring ; *o*, anterior portion of the oral cavity ; *p*, posterior portion of the oral cavity ; *r*, œsophagus ; *s*, intestine ; *t*, tentacular cavities ; *v*, circular fold or valve ; *x*, Polian vesicle.

Deima fastosum, Théel.

„ 2. View of the perisoma round the anterior closed aperture of the body ; twice the natural size. *a*, minute papillæ placed in a ring round the disk-like portion of the perisoma ; *b*, aperture into the foremost portion of the alimentary canal.

„ 3. Side view of the foremost portion of the alimentary canal, with the left side removed to show the position of the tentacles. *a*, the oral cavity ; *b*, tentacles retracted ; *c*, anterior aperture of the alimentary canal ; *d*, perisoma round the aperture ; *e*, layer of circular muscles ; *f*, fold. Twice the natural size.