

PLATE VII.

- Fig. 1. Portion of the cœnocœcium of *Cephalodiscus*, about natural size, tinted as in the spirit-preparations.
- Fig. 2. Transverse section of a pedicle of an unstained specimen, showing a somewhat different arrangement of the folds of the basement-tissue and the central muscular fibres; letters as before; $\times 350$.
- Fig. 3. Oblique section of the chief area of the nerve-tissue (*nc*), which lies under the thick hypoderm (*hp*) between the plumes (*br*). The collar spaces (*cv*) lie next the basement-tissue, bounding the nerve-centre internally, and a trace apparently of the notochord is observed at *c*. Some of the folds (*mf*) of the mouth have been included in the section, and the radiate muscles (*bsm*) of the buccal shield are observed on the left; $\times 350$.
- Fig. 4. Transverse section of the same bud as in Pl. VI. fig. 5, somewhat behind the former. The body-cavity (*co*) now shows the rudimentary generative organs (*ov*), the rectum (*r*), and the œsophagus (\varnothing) in section. The collar spaces (*cv*) are distinct, and the post-oral lamella (*pl*) is seen on the right. The position of the buccal shield is indicated by the letters *bs*; $\times 210$.
- Fig. 5. Transverse section of the same bud posterior to the former, and the three regions of the alimentary canal now occupy the body-cavity, viz., *r*, the intestine; *vt*, the stomach, while what is probably the pharynx (\varnothing) lies ventrally. A collar pore is observed at *cp*; *pl*, post-oral lamella; other letters as before.