

fronds, apparently bearing on parts of the main stem or petiole small rounded sporocarps. They are found abundantly in the Middle Erian of the State of New York, and also occur in Scotland, while one species appears to occur in Nova Scotia, as high as the Lower Carboniferous (Figs. 17, 18).

These organisms have been variously referred to Lycopods, to Algæ, or to Zoöphytes, but an extended compari-



FIG. 18.—*Ptilophyton Thomsoni* (Scotland). *a*, Impression of plant in veneration. *b*, Branches conjecturally restored. *c*, Branches of *Lycopodites Milleri*, on same slab.

son of American and Scottish specimens has led me to the belief that they were aquatic plants, more likely to have been allied to Rhizocarps than to any other group. Some evidence of this will be given in a note appended to this chapter.