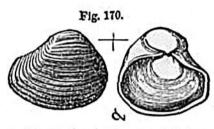
## SUBDIVISIONS OF THE HEMPSTEAD SERIES.

1. The uppermost or Corbula beds, consisting of marine sands and clays, contain Corbula pisum, fig. 170, a species common to the Middle Eccene clay of Barton; Cyrena semistriata, fig. 171, which is also a Middle Eccene fossil; several Cerithia, and other shells peculiar to this series.

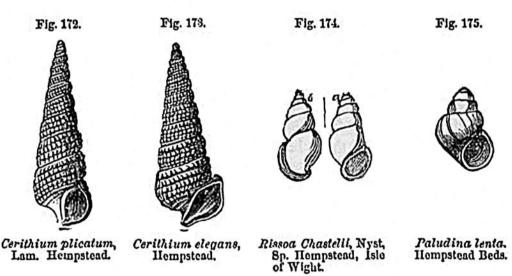


Corbula pisum. Hempstead Beds, Islo of Wight.



Cyrena semistriata. Hempstead Beds.

2. Next below are freshwater and estuary marls and carbonaceous clays, in the brackish-water portion of which are found abundantly Cerithium plicatum, Lam., fig. 172, C. elegans, fig. 173, and C. tricinctum; also Rissoa Chastelii, fig. 174, a very common Limburg shell, and which occurs in each of the four subdivisions of the Hempstead series down to its base, where it passes into the Bembridge beds. In the freshwater portion of the same beds Paludina



lenta, fig. 175, occurs a shell identified by some conchologists with a species now living, P. unicolor; also several species of Lymneus, Planorbis, and Unio.

- 3. The next series, or middle freshwater and estuary marls, are distinguished by the presence of Melania fasciata, Paludina lenta, and clays with Cypris; the lowest bed contains Cyrena semistriata, fig. 171, mingled with Cerithia and a Panopæa.
- 4. The lower freshwater and estuary marls contain Melania costata, Sow., Melanopsis, &c. The bottom bed is carbonaceous, and called the "Black band," in which Rissoa Chastelii, fig. 173, before alluded to, is common. This bed contains a mixture of Hempstead shells with those of the underlying Middle Eocene or Bembridge series. The seed-vessels of Chara medicaginula, Brong., and C. helecteras are characteristic of the Hempstead beds generally. The mammalia, among which is a species of Hyotherium, differ, so far as they are known, from those of the Bembridge beds immediately underlying.