UPPER ECCENE.		Thickness.
A. Hempstend beds, Isle of Wight, see above, p. 192	•	170 feet.
MIDDLE EOCENE.		
B. 1. Bembridge Series,-North coast of Isle of Wight	-	120
B. 2. Osborne or St. Helen's Scries,—ibid.	-	100
B. 2. Osborne of St. Heldis Swight, and Hordwell Cliff, Han-	ts -	170
B. 4. Headon Hill sands and Barton Clay,—Isle of Wight,	and	
Barton Cliff, Hants	-	300
B. 5. Bagshot and Bracklesham Sands and Clays,-London	and	
Hants basins	-	700
LOWER ECCENE.		
C. 1. London Clay proper and Boguor beds,-London and H	auts	
basins	•	350 to 500
C. 2. Plastic and Mottled Clays and Sands (Woolwich and Read	ding	
series),—London and Hants basins	•	100
C. 3. Thanet Sands,—Reculvers, Kent, and Eastern part of Lon	don	
basin	•	90

The true place of the Bagshot sands, B. 5 in the above series, and of the Thanet sands, C. 3, was first accurately ascertained by Mr. Prestwich in 1847 and 1852. The true relative position of the Hempstead beds, A, of the Bembridge, B. 1, and of the Osborne or St. Helen's series, B. 2, were not made out in a satisfactory manner till Professor Forbes studied them in detail in 1852.

Bembridge series, B. 1.—These beds are above 100 feet thick, and, as before stated (p. 187), pass upwards into the Hempstead beds, with which they are conformable, near Yarmouth, in the Isle of Wight. They consist of marls, clays, and limestones of freshwater, brackish, and marine origin. Some of the most abundant shells, as Cyrena semistriata var., and Paludina lenta (fig. 175, p. 193), are common to this and to the overlying Hempstead series. The following are the subdivisions described by Professor Forbes:

a. Upper marls, distinguished by the abundance of Melania turritissima, Forbes (fig. 182).

Fig. 182.



Melania turrilissima, Forbes. Bembridge.



Fragment of Carapace of Trionyw. Bembridge Beds, Isle of Wight.

b. Lower marl, characterized by Cerithium mutabile, Cyrena pulchra, &c., and by the remains of Trionyx (see fig. 183).

c. Green marls, often abounding in a peculiar species of oyster, and accompanied by Cerithia, Mytili, an Arca, a Nucula, &c.

d Bembridge limestones, compact cream-colored limestones alternating with