1962. What do you understand by *the multiplication of utility*? *Univ. Col., Ricardo Scholarship,* 1879-80 iii. 12.

1963. Enumerate some of the principal methods of maximizing utility. *Univ. Col. Class,* 1880-81. iii. 12.
[Compare such a case as that of a guinea spent in the purchase of books with the same sum subscribed to a circulating library.]

1964. Distinguish between actual, prospective, potential, mediate, and indirect utility. *Owens College,* 1876-77. ii. 10.

1965. Show in the form of mathematical symbols, the relation between the ratio of exchange of two commodities, and the increments of labour required to produce increments of commodity. How far can it be said to be true that commodities are valuable in proportion to the labour it has actually cost to produce them? *Owens College,* 1876-77. vi. 10.
[For the mathematical treatment of these subjects, see Prof. Jevons's *Theory of Political Economy* and the '*Principes Mathématiques de la Theorie des Richesses,*' by Augustin Cournot.]

1966. Distinguish between the total utility of a commodity and the degree of utility. *Owens Col., Cobden Prize,* 1875-76. i. 6.

1967. What are the dimensions of utility? Exactly define the economical meaning which should be given to the term *utility*. *Univ. Col. Class,* 1877-78. i. 7.

1968. Write out and explain the equations representing the relations between utility, value, productiveness of labour, and cost of production. *Univ. Col. Class,* 1877-78. iv. 7.

1969. What are the dimensions respectively of the