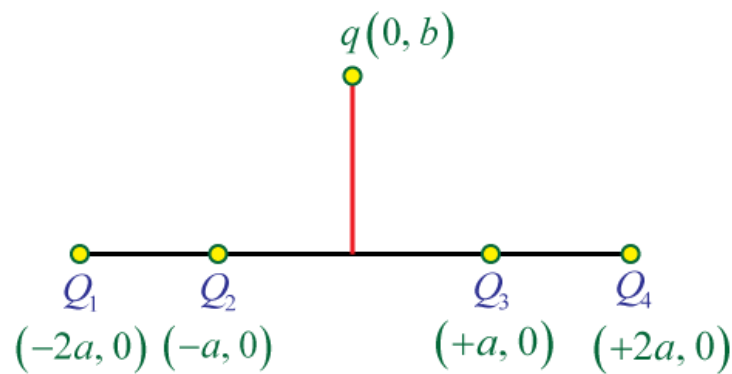


Problem 4) Four charge  $Q_1, Q_2, Q_3$  and  $Q_4$  of same magnitude are fixed along the  $x$  axis at  $x = -2a, -a, +a$  and  $+2a$ , respectively. A positive charge  $q$  is placed on the positive  $y$  axis at a distance  $b > 0$ . Four options of the signs of these charges are given in List-I. The direction of the forces on the charge  $q$  is given in List-II Match List-1 with List-II and select the correct answer using the code given below the lists.

[JEE (Advanced)-2014, 3/60, -1]

	List-I	List-II
P.	$Q_1, Q_2, Q_3, Q_4$ all positive	1. $+x$
Q.	$Q_1, Q_2$ positive $Q_3, Q_4$ negative	2. $-x$
R.	$Q_1, Q_4$ positive $Q_2, Q_3$ negative	3. $+y$
S.	$Q_1, Q_3$ positive $Q_2, Q_4$ negative	4. $-y$



- 1) P-3, Q-1, R-4, S-2
- 2) P-4, Q-2, R-3, S-1
- 3) P-3, Q-1, R-2, S-4
- 4) P-4, Q-2, R-1, S-3

Ans) 1