16. Thediagram below shows a wooden rod with a magnet P and iron ball Q hanging from  
a rope. |

, Support  
  
«— 15cm—rlle— 150m —>  
  
Pn nn  
  
|  
  
| ; .  
  
| wooden rod 6 iron ball Q  
  
5  
| magnet P (609)  
| (50g)

Wnich one oF ine tollowing statements Is faise’?

(1) When the north pole of another magnet is placed under magnet P, the  
wooden rod will tilt towards magnet P. ---  
  
(2) When the north pole of another magnet is.placed under iron ball Q, the  
wooden red will tilt fowards magnet P. ©":  
  
{3) | When the south pole of another magnet is placed under magnet P, the  
wooden rod will tilt towards iron ball Q.  
  
: (4) When the south pole of another magnet is placed. under tron-ball-Q, the  
  
wooden rod will tit towards iron ball Q.