Ans (2.) 1-> Four Necessary and sufficient condition for deadlock.

(a) Mutual exclusion. The resource involved must be unshared otherwise the process would not be proceted from using resource when necessary

(b.) Help and wait or partial allocation

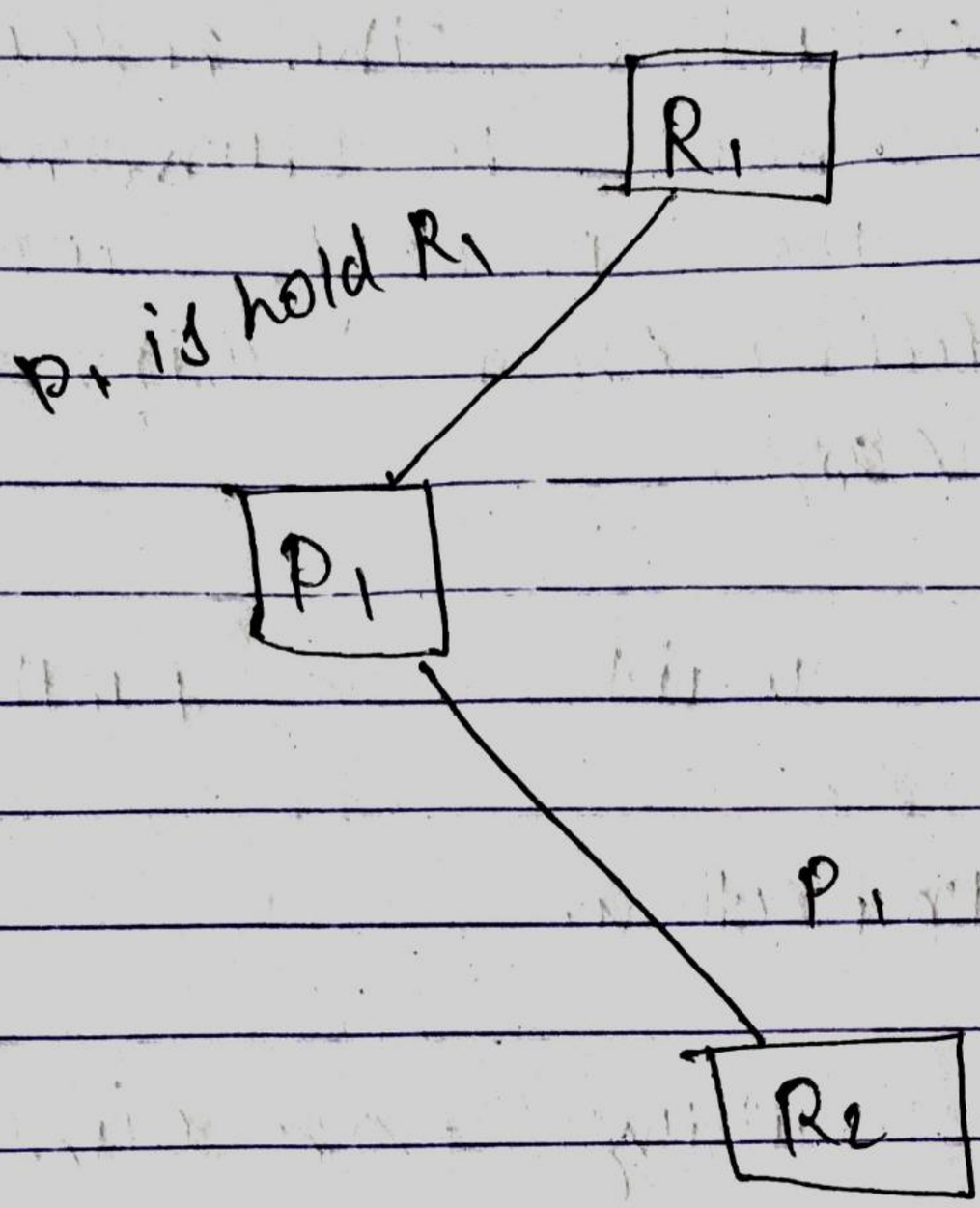
(c) No pre-implation.

(d.) Resource waiting or circular wait.

circular wait.

One protocal to ensures that the circuler wait condition never hold is Impose a linear ordering of all resource types. Then each process can only request resume in an increasing order of priority. If process p wanted to

use r_1 and r_3 , it should first request r_1 then r_3.



Hold and wait