- Consider SUO process with $G_p = \frac{2}{(2D+1)(D-1)}$
- (a) In it open loop stable or newtable. Justify

 (b) what is the range of P controller gain for which closed loop

 procus is stable. Justify
- Can a PO controller stabilite the process. If yes, what is
 the range of to be which closed loop process can be stabelited.
- A PID controller is used with Rz chosen to cancel the stable open loop pole. What is the range of to for which the closed loop process can be stabilized. 12
- oscillations que (d) a used, Obtain Ke for sustained 900: Ke Topal Ropal (6)