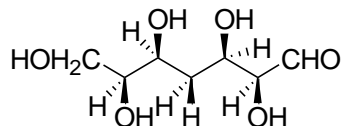
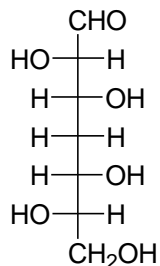


- 1) Si vogliono separare per cromatografia a scambio ionico con resina solfonica, gli aminoacidi Arginina (pI = 10.76) e tirosina (pI = 5.65). Quale strategia è più indicata?
- Utilizzare un tampone a pH = 8 per eluire la tirosina e poi alzare il pH a 12 per eluire l'arginina
 - Utilizzare un tampone a pH = 12 per eluire la tirosina e poi abbassare il pH a 8 per eluire l'arginina
 - Utilizzare un tampone a pH = 8 per eluire i due aminoacidi
 - Utilizzare un tampone a pH = 2 per eluire la tirosina e poi alzare il pH a 12 per eluire l'arginina
 - Utilizzare un tampone a pH = 12 per eluire i due aminoacidi
- 2) Data la molecola:

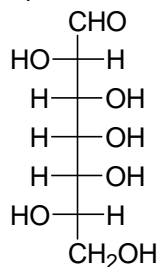


Scrivere la sua proiezione di Fischer (suggerimento: aiutarsi utilizzando la nomenclatura CIP (R ed S) degli stereocentri).

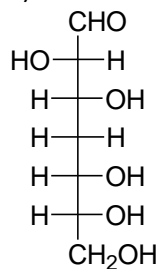
a)



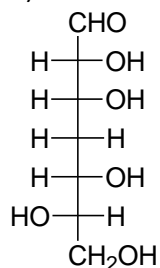
b)



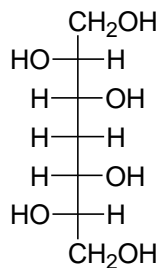
c)



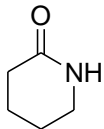
d)



e)

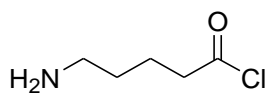


3) Per ottenere questa molecola:

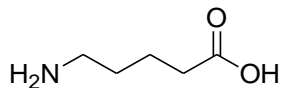


Da quale molecola è più conveniente partire?

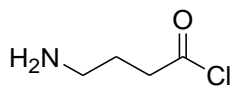
a)



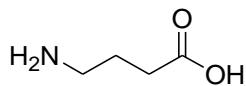
b)



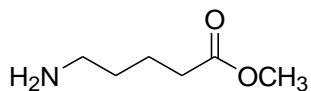
c)



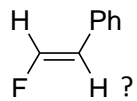
d)



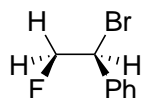
e)



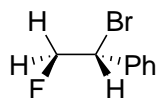
4) Attraverso una reazione di eliminazione (E_2), da quale prodotto si deve partire per ottenere



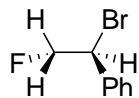
a)



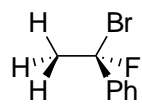
b)



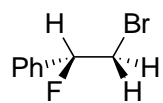
c)



d)



e)



SOLUZIONI: Le risposte a) sono quelle giuste per tutti i quesiti.