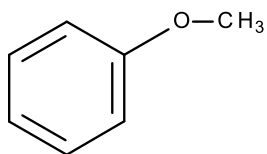
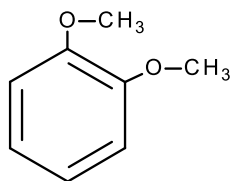


化学問題Ⅲ

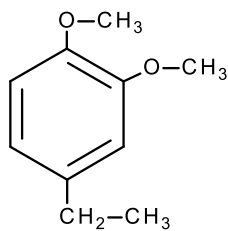
問1 A :



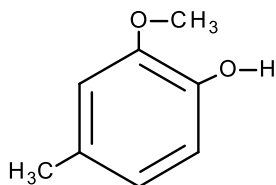
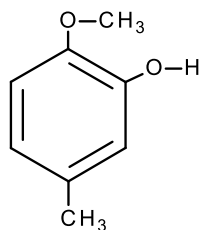
B :



C :

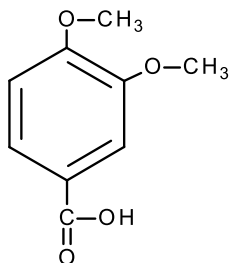


D・E :

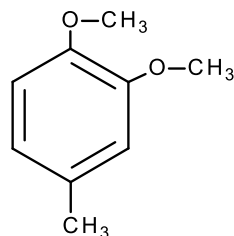


(順不同)

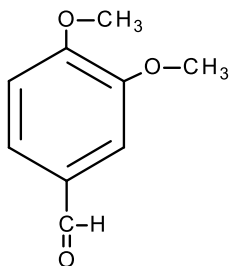
問2 F :



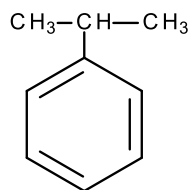
G :



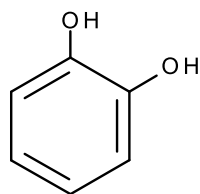
H :



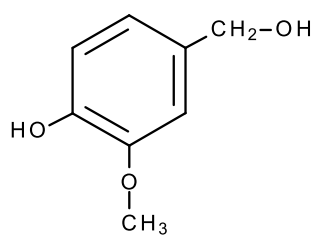
問3 I :



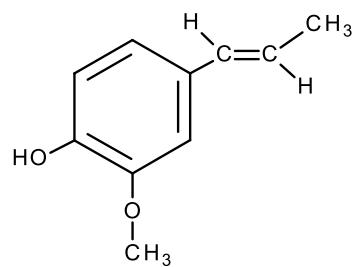
J :



K :



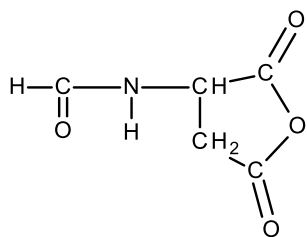
L :



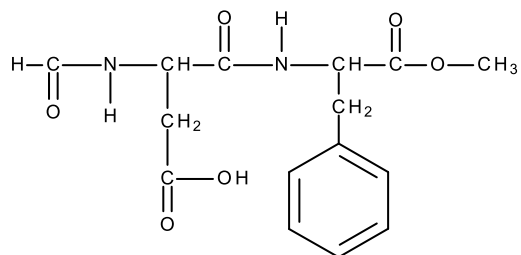
問4 2.61×10^8 kg

化学問題IV

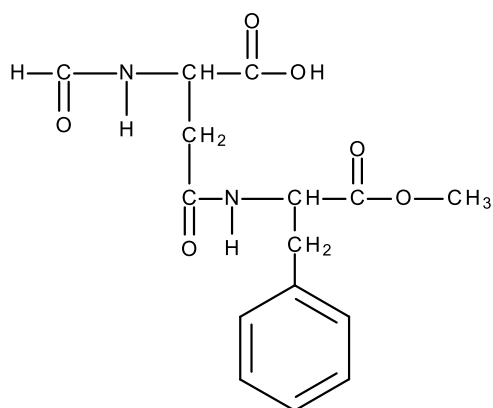
問1 X :



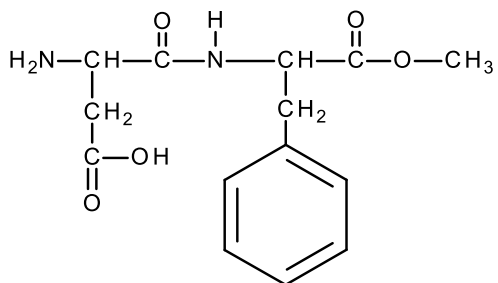
Y :



Z :

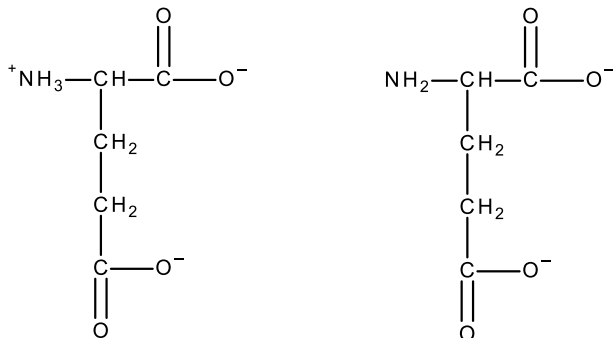


問2



問3 プロリン, グルタミン酸

- 問4 a : カルボキシ b : 酸性 c : 4
 d : 負
 I : II :



- 問5 i) 無水酢酸
 ii) 加水分解してラクタムより塩基性が強く無水酢酸と反応しやすいアミノ基が生じたから。(40字)

問6 グルタミン酸-ヒスチジン-プロリン

問7

