CHEM106 Quiz 2

Please show all equations, all substitutions, all units, and all work to receive any credit

1. Draw the complete Lewis structures (to include all atoms, bonds, formal charges and lone electron pairs) for all reactants and products and clearly show the mechanism of action for the condensation reaction between ethylamine (C₂H₅NH₂) and propanoic acid, (CH₃CH₂COOH).

2. Draw the complete Lewis structures (to include all atoms, bonds, formal charges and lone electron pairs) for all reactants and products and show the mechanism of action for the condensation reaction among a glycerol molecule, a dihydrogen phosphate ion [H₂PO₄]⁻¹, and a choline molecule HOCH₂CH₂N(CH₃)₃⁺ that occurs during the formation of a phospholipid.