1) The nylon has a peak around 1600 due to a carbonyl group in the amide linkage which shows the successful synthesis or nylon from hexamethyl diamine given maass: 39 2) Adiaphyl Molar mass: 183.03 g/mo) Chloride Hexamethyl. given mass: 4.7 g Molar mass: 116.21 g/moi diamine moles of = 3 = 0.0164 U = WAdiophyl Chloride 183.03 MY moles of = 4.7 = 0.0404 Hexamethyl diamine 11621 Since their molar Ratio is 1:1 Hexamethyl diamine is in excess while Adiophyl chloride is talimiting reagent 3) The hydrogen bonds between N-17 bond at one nylon chain and C=6 bond of another nylon chain provide the main intermolecular force. This make nylon stronger and durable. 12 This is the reason behind nylon 9 toing pailing apid

4) Step Growth/condensation polymerisation is used during the synthesis of nylon. The monomers are Hexane 1,6 diamine and Adiophyl Chloride and HCL is lost during the synthesis 5) a) Synthetic polymers are all around Us, from nylon clothing to silicon heart values, we use synthetic polymers du al Synthetic polymers are all around is from plastic cups to biodegradeblz materials they are used in various fields + Nylon is specially used in textile due to its strength and clasticity. b) PSCs (Polymer Solar Cells) can be used as light absorbers, electron donor and acceptor can be used to produce clean energy from the sublight with an efficiency of ナーナーケー 107. By working more on this field, we can increase the efficiency and it might be the solution of our energy crises