Que	stion 30 (8 marks)	
	1/2 1/2	
(a)	Compare the process of polymerisation of ethylene and glucose. Include relevant chemical equations in your answer.	3
	Ethylene: CH2=CH2=CH2=CH2=CH2=CH2=CH2=CH2=CH2=CH2=	
	-CH2-CH2-CH3-CH3-	
	poly other is an addition polymer	
	alvose: CoHaDie Fall 8012 > cellulose+H20 gcellulose 13 a condensation	
	g cellulose 13 a condensation	
	polyner	

Question 30 continues on page 22

(b)

Question 30 (continued)

Explain the relationship between the structures and properties of THREE different polymers from ethylene and glucose, and their uses.
cellulose: wood Sibre, perpper, cotton, clothun, padeg
not water soluble
indigestible by humans
not water soluble Indigestible by himens Some fairly risold but flexible strong
HDPES Linear not branching charact give it a hard clear a ridgid structure, used for
LDPE: Branched cher ms gives Au 8087
flexible structure used for a freezer
bags some containers letcio.

End of Question 30