Question 30 (8 marks) —C=C #	
4 4	
(a) Compare the process of polymerisation of ethylene and glucose. Include relevant chemical equations in your answer.	3
Ethylene: CHZ-CHZ-CHZ-CHZ-CHZ-CHZ-CHZ-	
-CH2-CH2-CH2-CH2-	
poly other is an addition polywar	
alvose: CoHODE A CHH & O12 > cellulose + 1420	
a cell viose 13 a condensation	
polyner	

Question 30 continues on page 22

Question 30 (continued)

))	Explain the relationship between the structures and properties of THREE 5 different polymers from ethylene and glucose, and their uses.
	celluloses wood Sibre, perpper, cotton, clothun, padeg w
	not water soluble
	indigestible by humans
	Some sourly ridered but flexumbe
	1ndigestible by humans Sorms sairly ridged but fleximble thought strong
	· · · · · · · · · · · · · · · · · · ·
	HDPES Linear not branching charact give it a hard clear a ridgid structure, used for
	clear aridgid structure, used for
	packagn, co covers, tous etc.
	LDPE: Branched cherins gives Au 8087
	flermble structure used for & freezer
	bags some containers letcio.

End of Question 30