Question 30 (8 marks)

(a)	Compare the process of polymerisation of ethylene and glucose. Include relevant chemical equations in your answer.
	relevant chemical equations in your answer. [Ethylene + ethylene] (244 - [c-c]) Dolydhylene.
	-c-c- polyethylere. (addition reaction)
,	-hydrocarbon polymer
	Te used in medical purpose.
	& ghesse:
	Ouestion 30 continues on page 22
	Sugar polymer. Co H1206 - (6 H1206) n Condensations reactions
_	this polymer is widely used in medure has the ability to be fermented by yeast is moduce ethand.
-	has the ability to be termented by yeast
Ţ	is pooduce ethanol.

Question 30 (continued)

(b) Explain the relationship between the structures and properties of THREE

different polymers from ethylene and glucose, and their uses.

poly ethyle - 18 sery useful as

planticly there is two types of

poly ethyle LDPE and HDPE

LDPE use high presencer to obtains

its structure and flexibility property.

HDPE use high temps and structure:

poly ethylene belongs to the alkene

group there fore can be sutwarted

using there and thoor as for

glucose it can't be sutwarted.

glucose it can't be sutwarted.

glucose that polar and mon-polar

properties the but they both polymers

have covalent words which makes them

End of Question 30