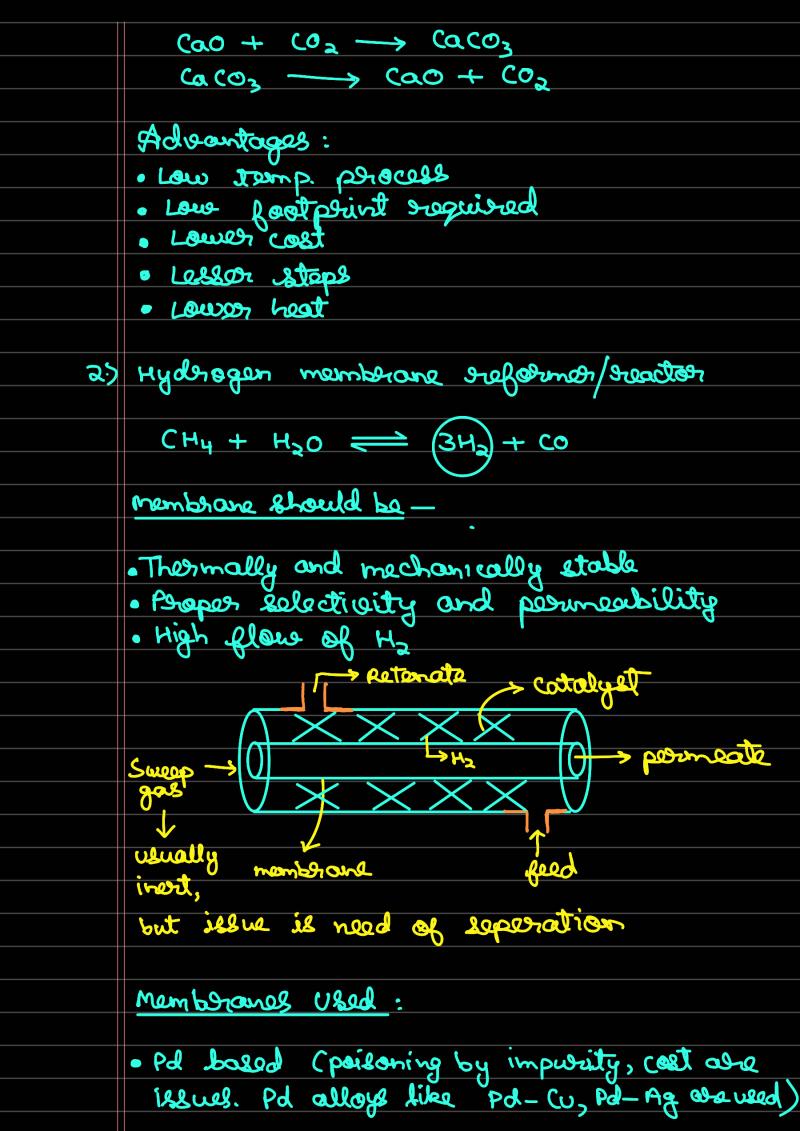
A: Limestone, dolomite, zeolites



→	Partial Oxidation:
	CH4 + 1/202 -> CO + 2H2 V AH= -36 KJ/
	Jeff.
	$\frac{CH_{4} + 20_{2} \rightarrow CO_{2} + 2H_{2}O}{\chi}$
	(H) = -802 KJ
	• Oxidant - Oa/air • Exethermic process
	· Exathermic process
	\bullet H ₂ /CO = $>$
	· Fuel flexibility.
	· Fuel flexibility. · Useful when upgerading Heavy Residual Oils (HROA)
	Oils (HROs)
☆	a types -
	Catalytic Partial Oxidation (CPO)
() 2.>	
ر م	Men CPO (MOPO)
1)	CPO —
	· operates at lower T (600-900°C) · Lower Hydro coerbons (HCs) vsed
	· Lower Hydrocoerbons (HCs) used
	O Company of the comp
ಎ -)	NCPO-
	· operates at high temp. (1200-1500°C)
	· operates at high temp. (1200-1500°C) · wide range of feedstacks.