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●LITHIFICATION:It can be defined as a complex process whereby freshly deposited loose grains of sediment are converted into rock.The sediment may be compacted by rearrangement of grains under pressure, reducing pore space and driving out interstitial liquid.

●CEMENTATION:it is defined as the hardening and welding of clastic sediments (those formed from preexisting rock fragments) by the precipitation of mineral matter in the pore spaces. It is the last stage in the formation of a sedimentary rock.

●COMPACTION:it is defined as the process by which a sediment progressively loses its porosity due to the effects of pressure from loading

●INDURATION:it is defined as the process of hardening rocks through cementation of soil or porous rock, as one of the processes of diagenesis and lithification

#### ●EXAMPLES OF DIAGENESIS

1.Precipitation

2.bioturbation

3.bioirrigation