

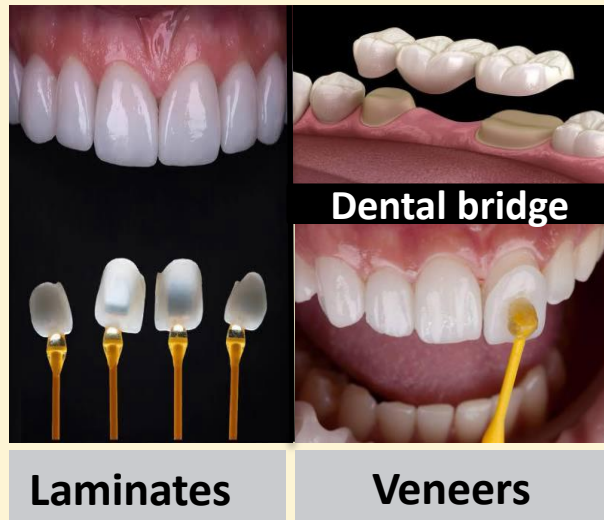
NATURE INSPIRED SOLUTION FOR RESTORATIVE AND REGENERATIVE ENDODONTICS –BIOMIMEMTIC DENTISTRY

Bio-mimetic dentistry is known as the art and science of restoring damaged teeth and using of materials that mimic the properties of natural teeth—strength, appearance and function.

ROLE OF BIOMIMEMTIC MATERIALS IN RESTORATIVE DENTISTRY

CONVENTIONAL
APPROACH

CONSERVATIVE
APPROACH



MATERIALS USED

Glass ionomer cement , dental composite resin, ceramics

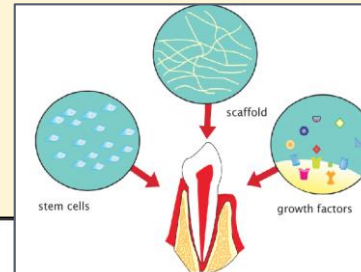
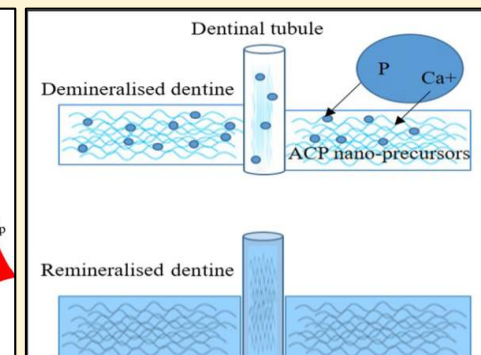
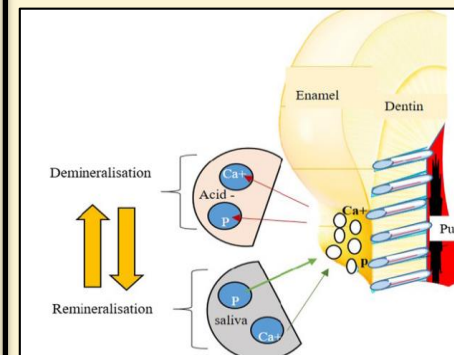
ROLE OF BIOMIMEMTIC MATERIALS IN REGENERATIVE DENTISTRY

DENTINE REMINERALISATION

DENTINE- PULP COMPLEX
REGENERATION

CRYSTALLITES GROWTH
CONVENTIONAL
REMINERALISATION
APPROACH

BOTTOM-UP
BIOMIMETIC
REMINERALISATION
APPROACH



**MATERIALS
USED**
MTA
BIODENTINE
BIOACTIVE
GLASS
PLATELET
CONCENTRATION

Remineralisation agents
Tri-calcium phosphates , fluorides, GIC.

CONCLUSION: To conserve tooth structure and vitality, increase the longevity of restorative dental treatments, and eliminate future retreatment cycles.