

2.5.2 – Mechanism to deal with examination-related grievances is transparent, time-bound and efficient

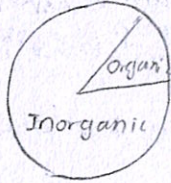
Essay

1. Dentin:

The soft hard tissue covered by enamel.

Enamel is the hardest substance present in our body.

Chemical Properties of Dentin

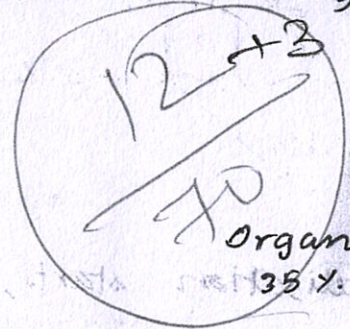


Dentin

Inorganic

65%

Calcium Hydroxyapatite crystals



Organic 35%

Calcium hydroxyapatite crystals are in major of 65%.

DENTIN

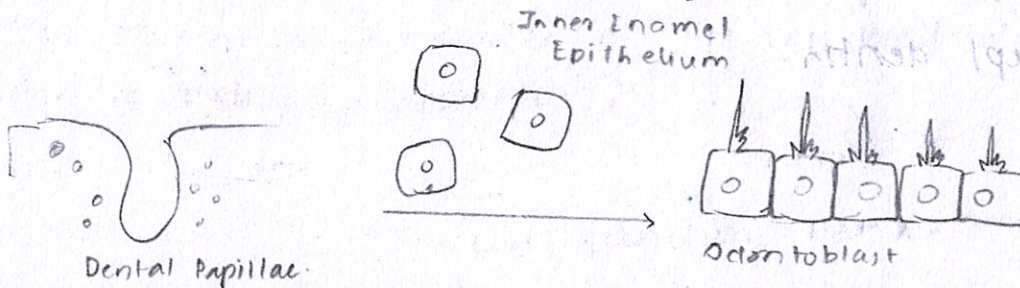
MANDLE DENTIN

CIRCUMFERENTIAL DENTIN

Dentinogenesis: The process of formation of dentin

Dental papillae in presence of inner enamel epithelium forms odontoblast

Odontoblast are the dentin forming cells



Before the formation of odontoblast, differentiation of inner enamel epithelium.

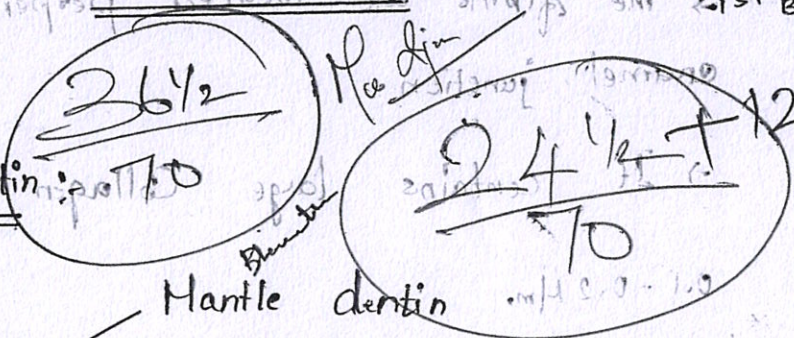
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Oral histology.

- BHARATHI...
1st BDC.

1. The types of dentin:



Mantle dentin

Primary dentin

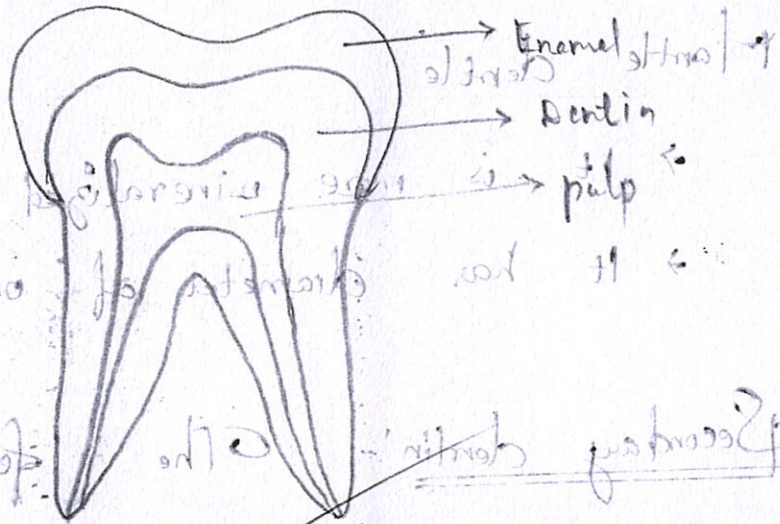
Circumpulpal dentin

Secondary dentin

Reparative dentin

Teritary dentin

Sclerotic dentin



Primary dentin :- The dentin that develops before

root formation

Mantle dentin :- It is a first formed dentin

under the dentinoenamel junction.

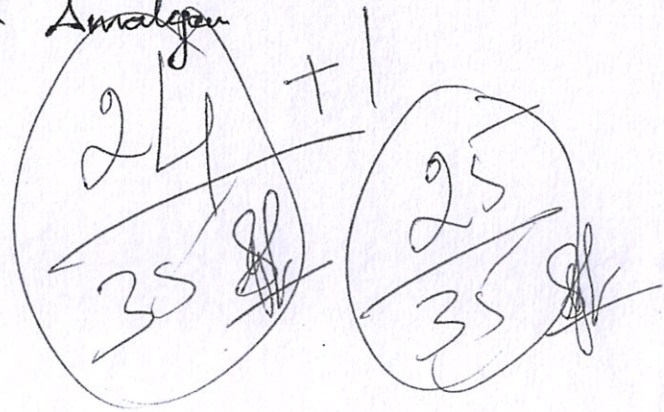
→ It is soft and gives cushioning

Essay

- 1) Explain in Detail about Dentin bonding agents

Short notes

- 1) Classification of Dental Amalgam
2) Tituration
3) Zinc phosphate
4) Setting reaction of GIC
5) Cavity Varnish



Marks corrected:

Answers

- 1) Dentin bonding agent

Dentin bonding agents are designed to provide a sufficiently strong interface b/w restorative composite & tooth structure to withstand mechanical forces & shrinkage stress.

The success of adhesives is dependent on

2 types of bondings

* Micromechanical, Chemical bonding with Dentin

* Copolymerization with Resin

Matrix of Composite materials

3/6/23

Reshmi 17

I INTERNAL ASSESSMENT

II yr.

Dental Materials

23	2
35	35

I. Essay.

1) Explain in detail about dentin bonding agents.

Marks corrected: 11

SHORT NOTES.

- 1.) classification of Dental amalgam.
- 2.) Trituration
- 3.) zinc phosphate
- 4.) setting reaction of GIC.
- 5.) cavity varnish.

1. classification of Dental amalgam::

Dental amalgam is classified Based on:

i) Zn Based on copper.

ii) Based on Zn

iii) Based on size

iv) Based on shape.

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