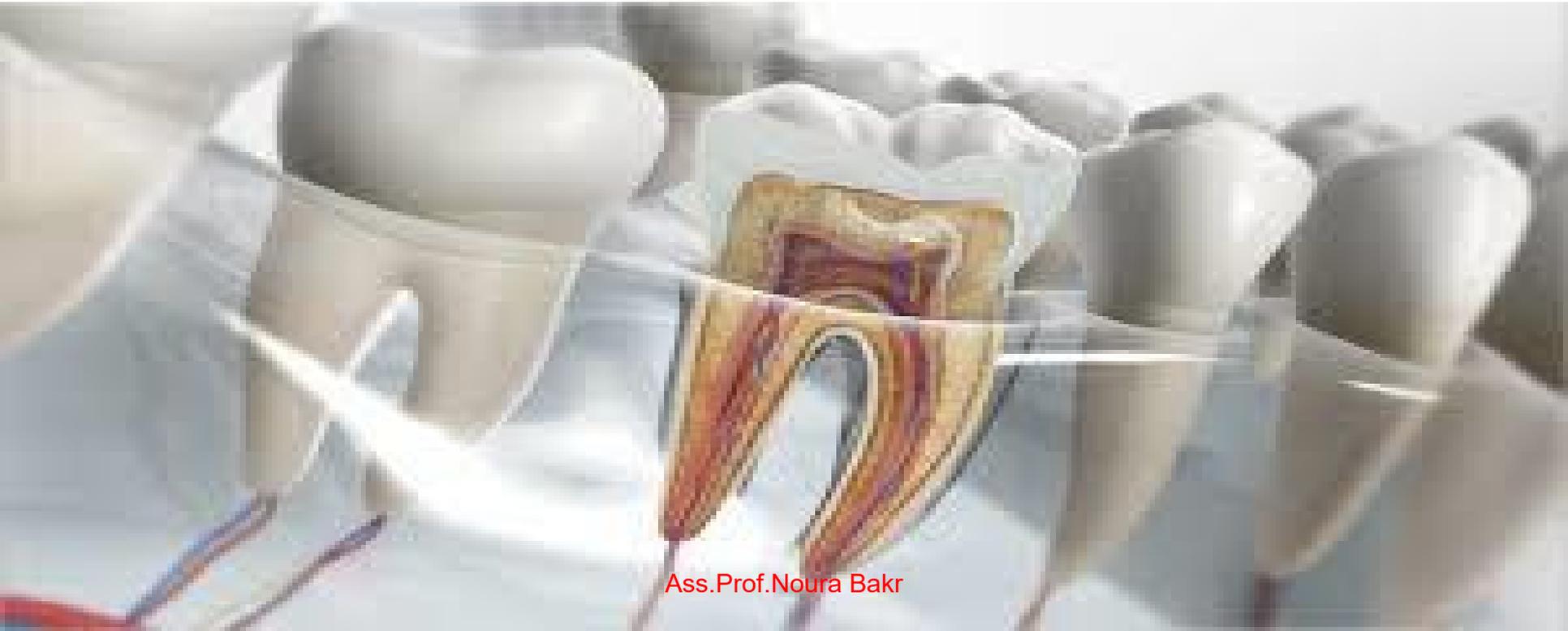


بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

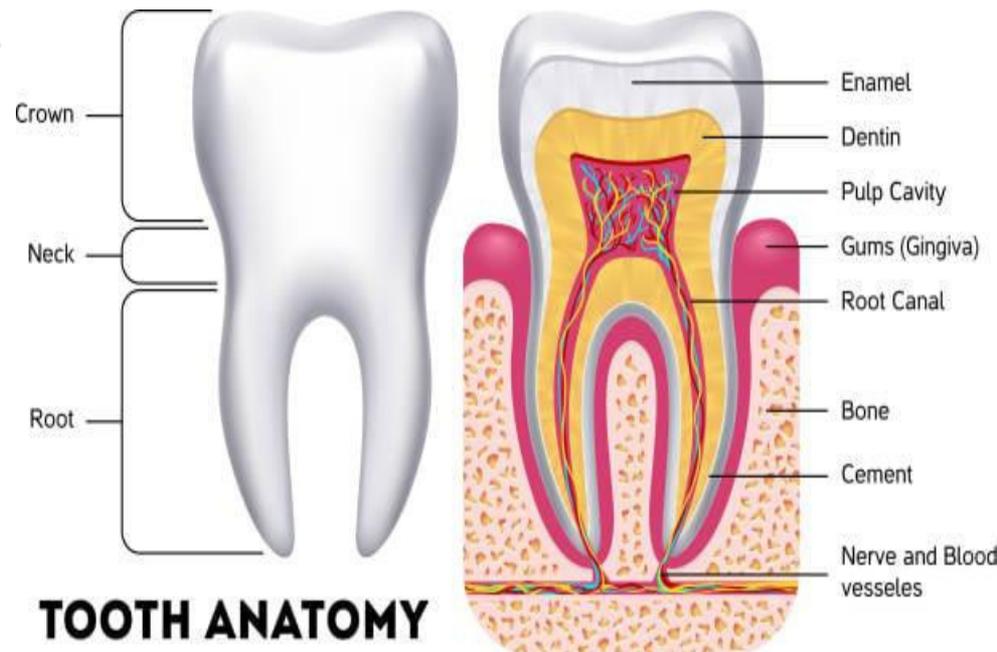
Macro and micro-anatomy of the teeth and numbering system



Objectives:

- Macro-anatomy of the tooth
- Micro-anatomy of the tooth
- Junctions of tooth tissues
- Clinical & anatomical crown
- Tooth numbering system

Interactive session.
(Q&A)



Tooth Anatomy

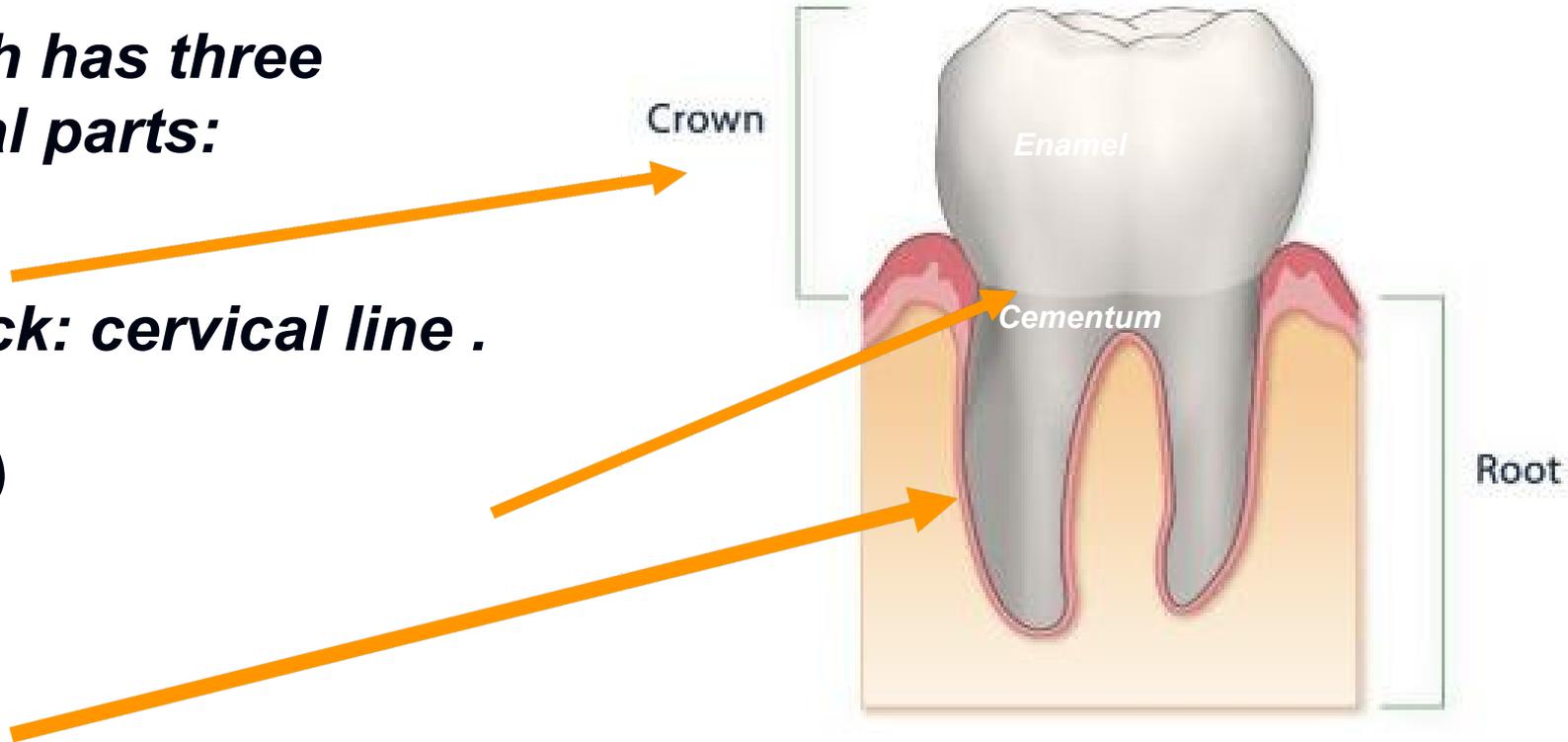
Macro-anatomy of the tooth

Each tooth has three anatomical parts:

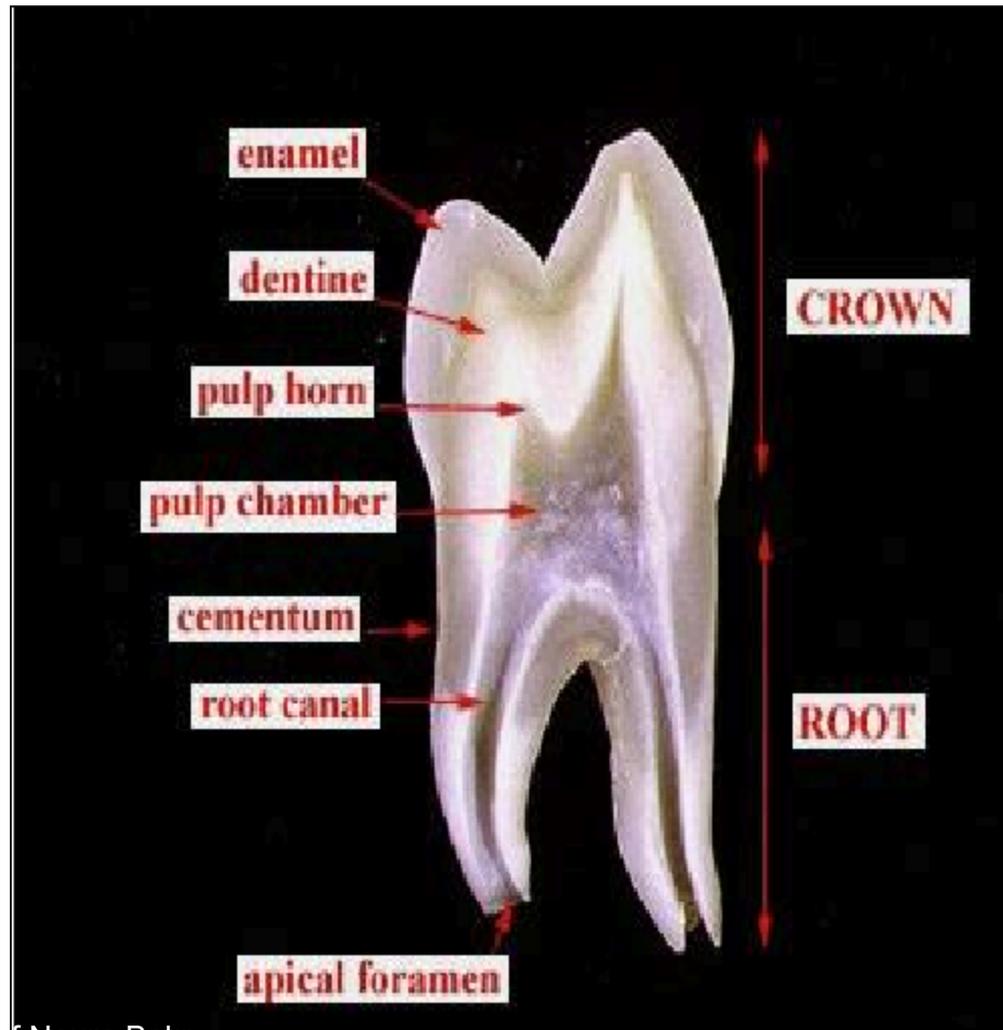
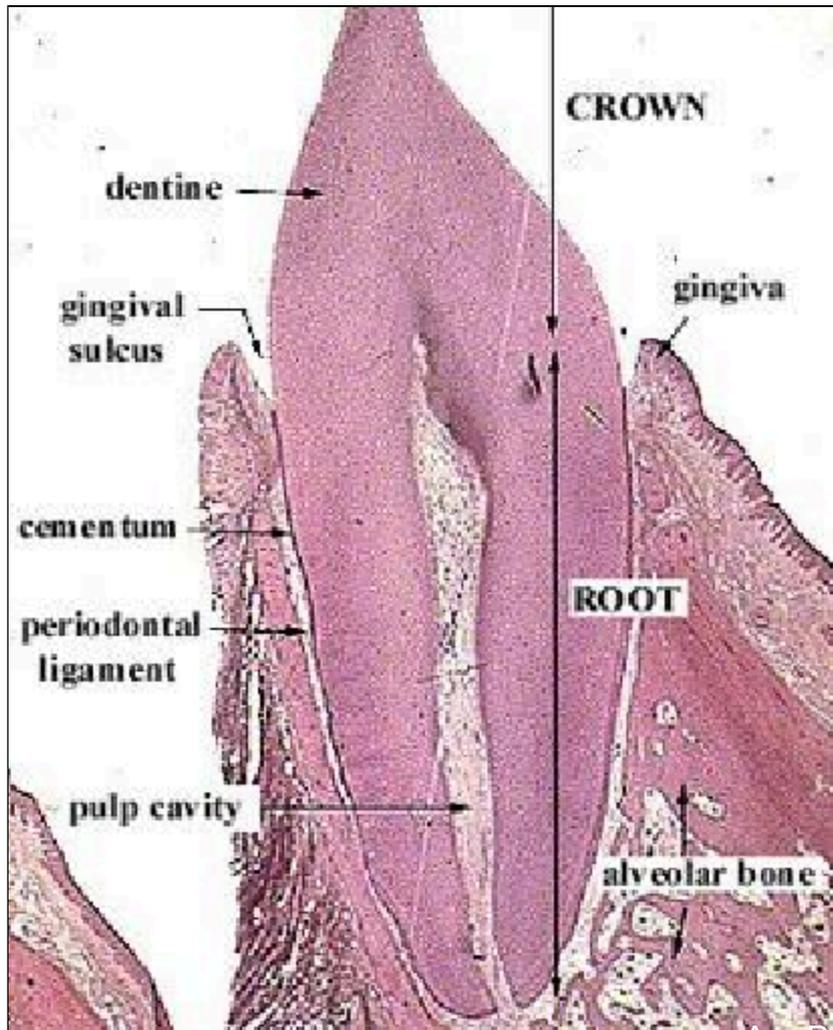
1- Crown

2- The Neck: cervical line .

3- Root (s)



Micro-anatomy of the tooth



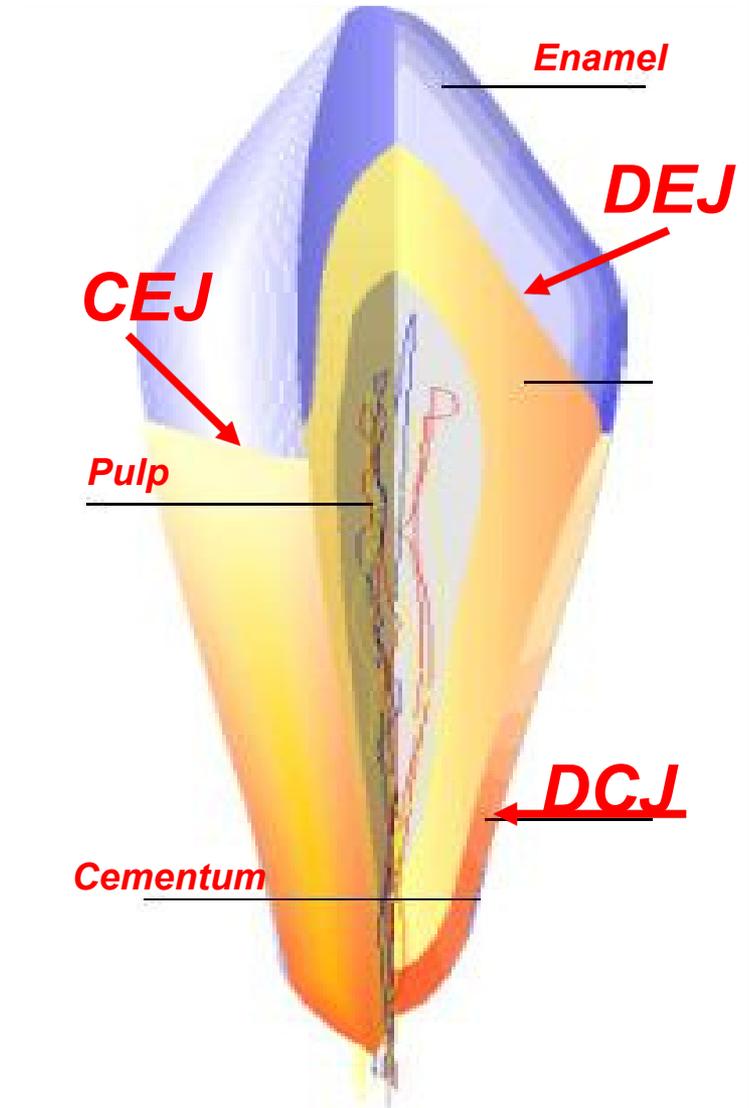
Junctions of tooth tissues

There are three sites of Junction

***1- Cemento-enamel junction
(CEJ): Cervical line***

2-Dentino-enamel junction

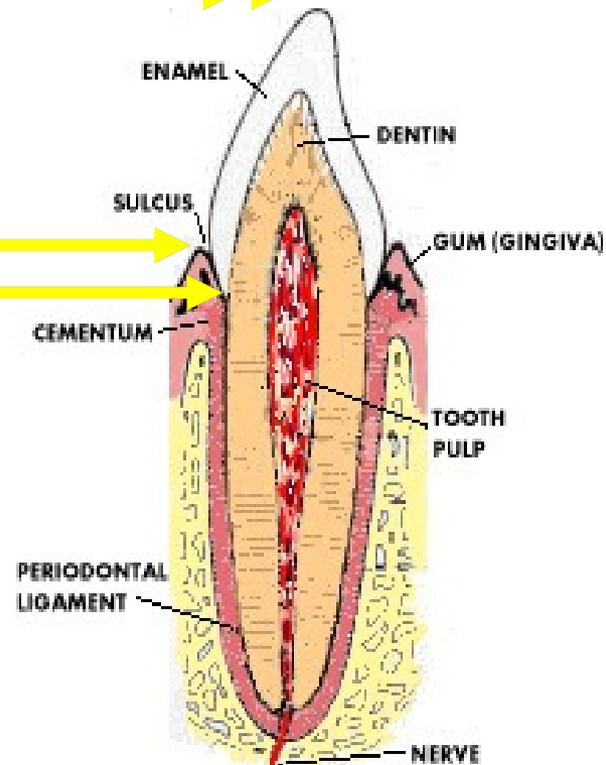
***3-Dentino-cemental junction
(DCJ):***



Anatomical and clinical crown.

**Anatomical
Crown**

**Clinical
Crown**

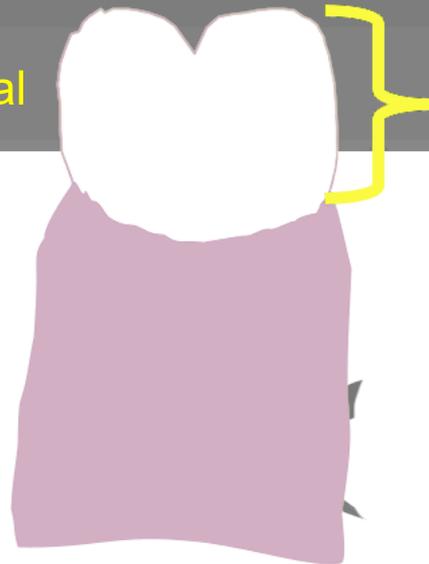


Anatomical and clinical crown

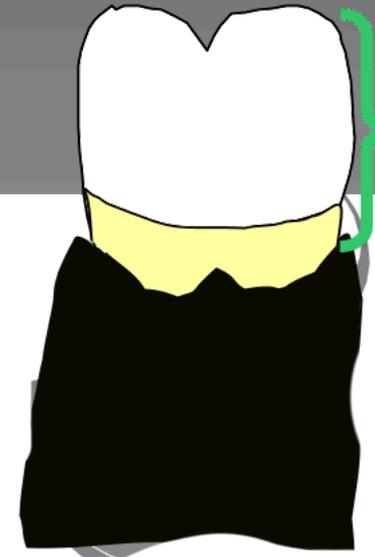
Clinical
crown



Anatomical
crown



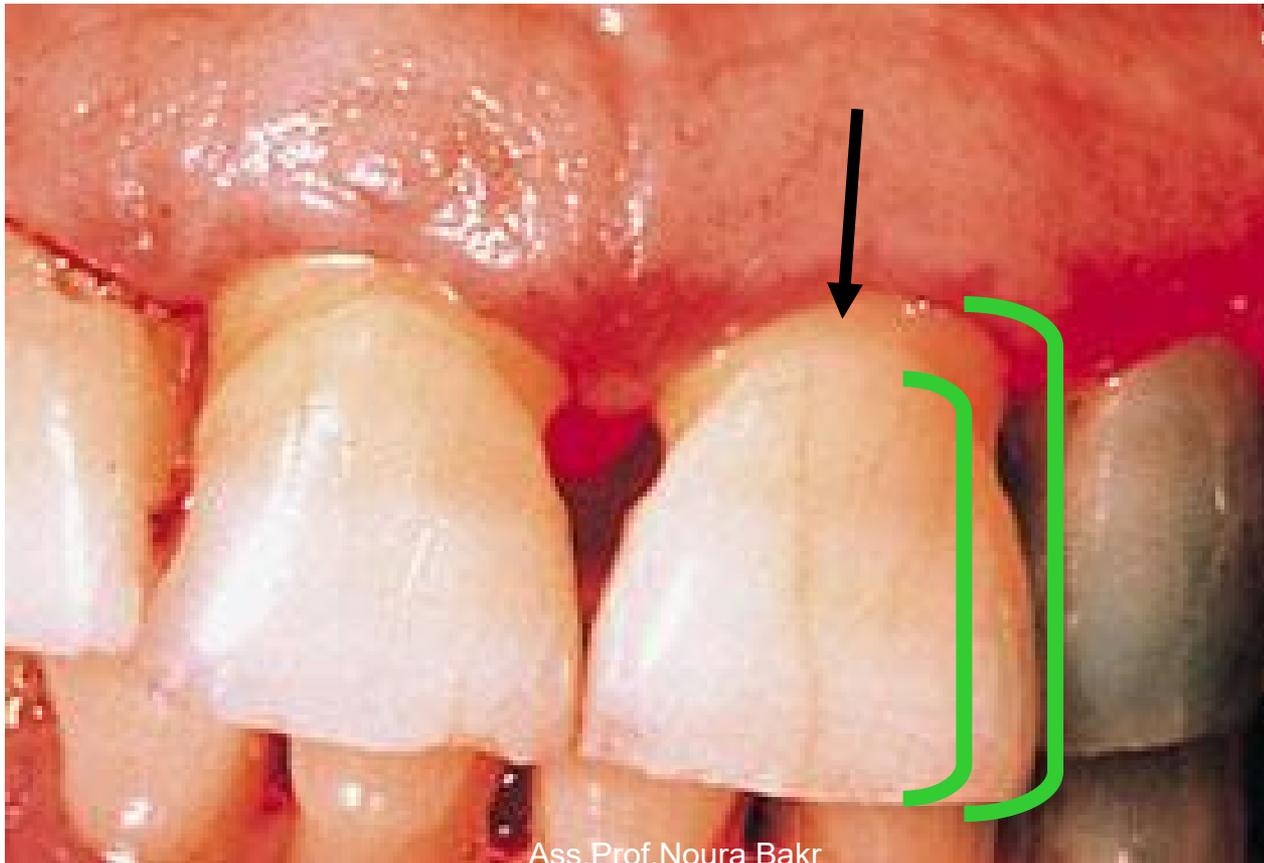
Clinical
crown



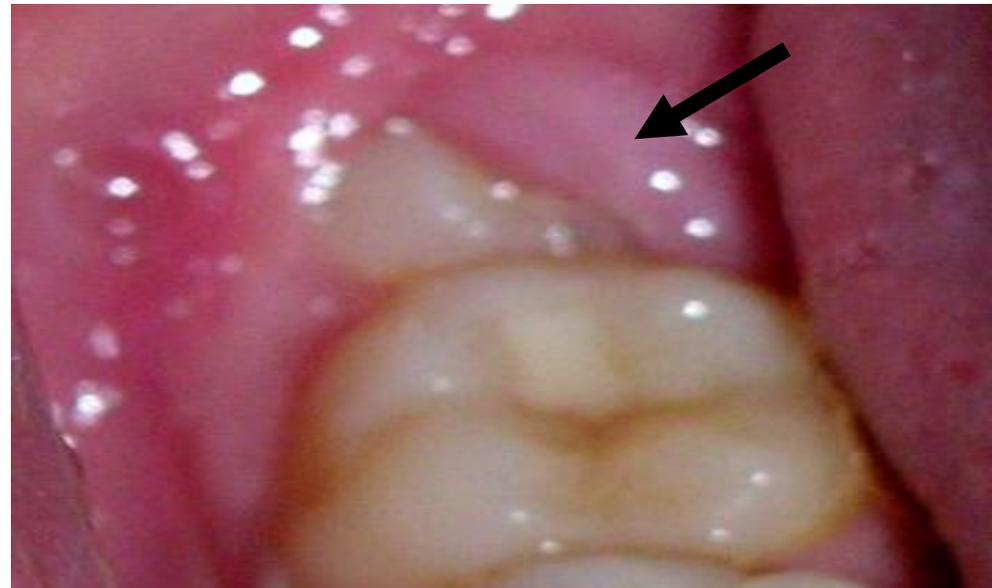
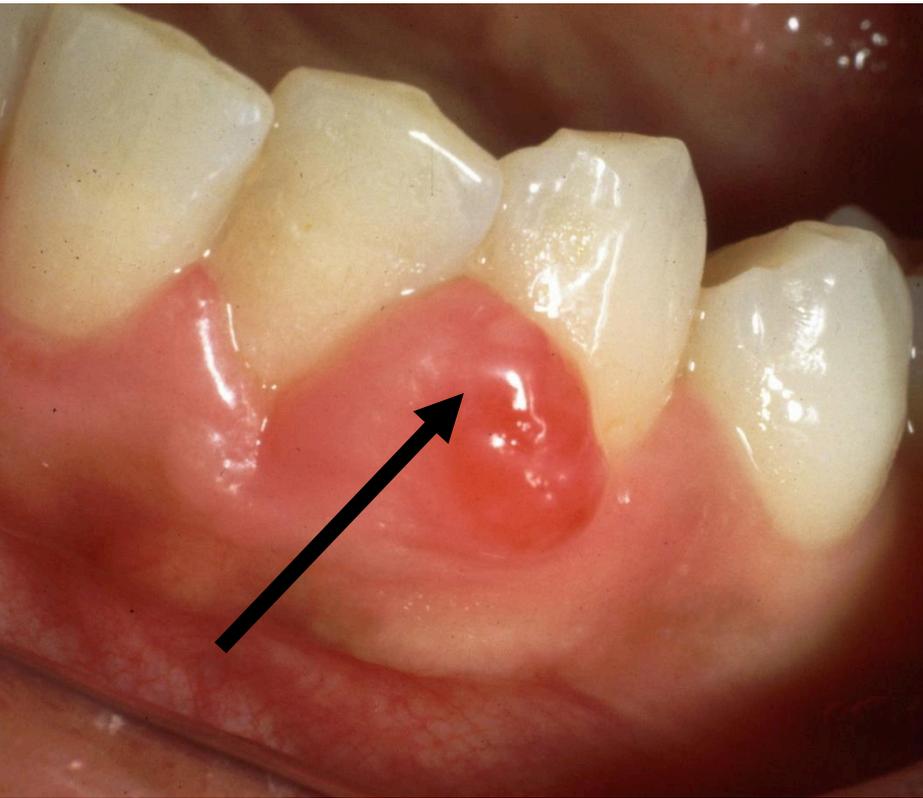
Is the part of a tooth that is visible in the oral cavity above the gum line.

☺ The part of the tooth covered by enamel.

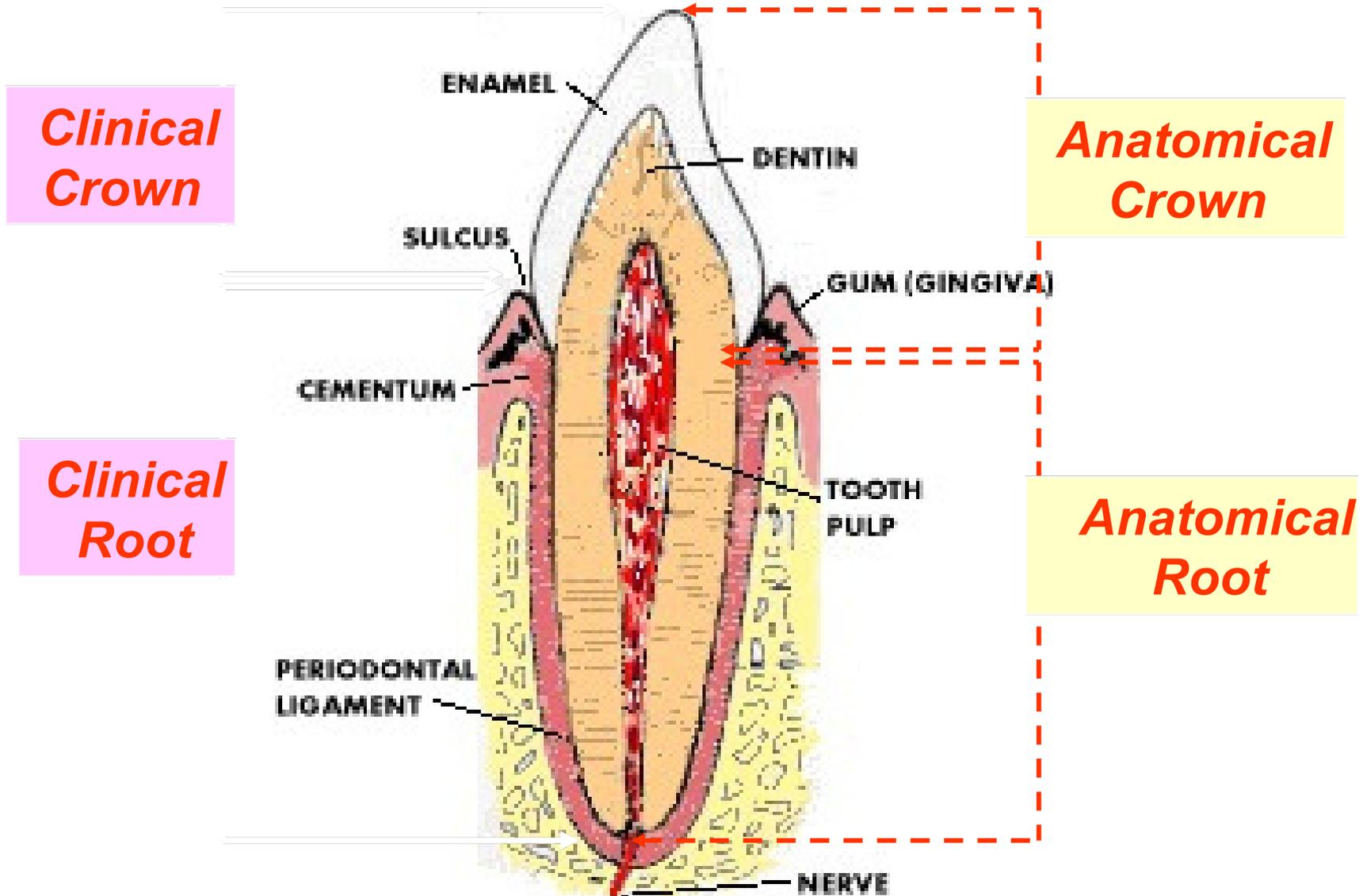
Clinical crown may include all of the anatomical crown and part of the root.



Part of the anatomical crown may be covered by gingiva.



Anatomical And Clinical Crown And Root



Anatomical And Clinical Crown And Root



**Anatomical
crown**

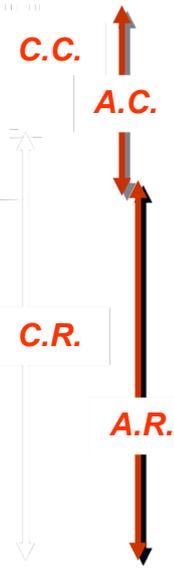
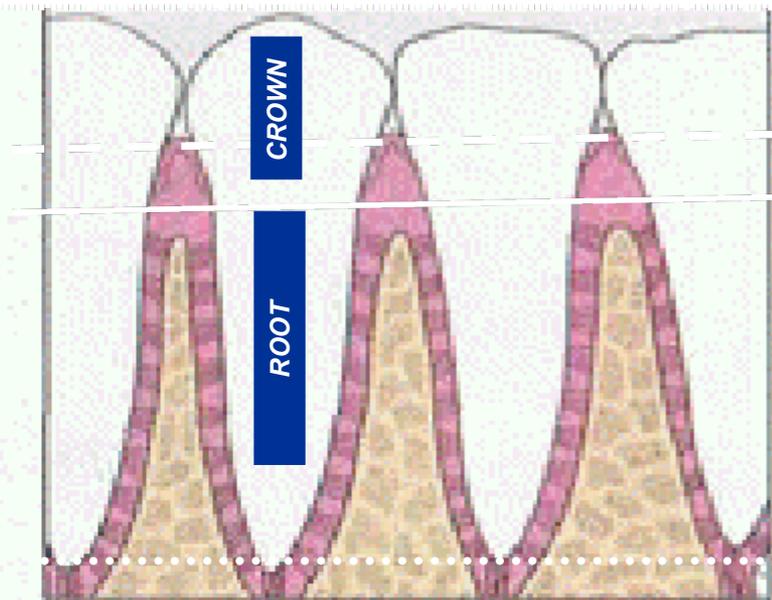
**Clinical
Crown**

Part of the Anatomical root

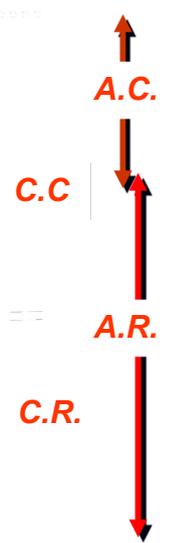
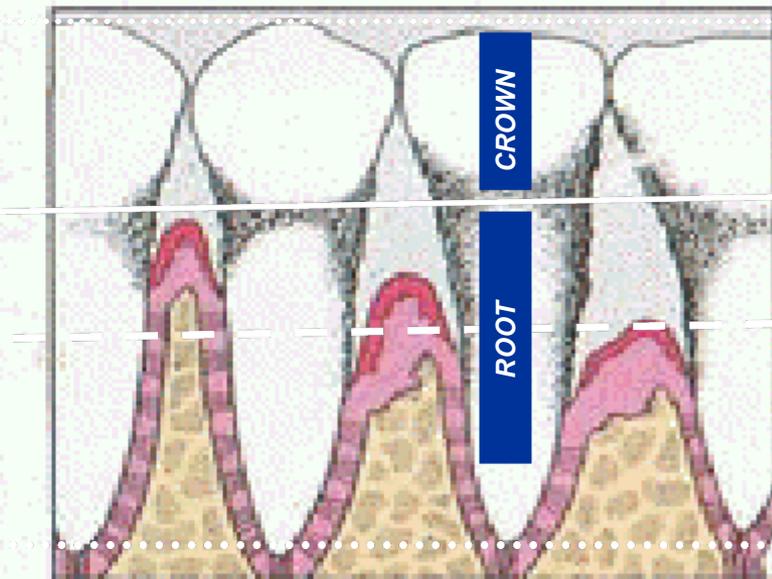
Anatomical And Clinical Crown And Root



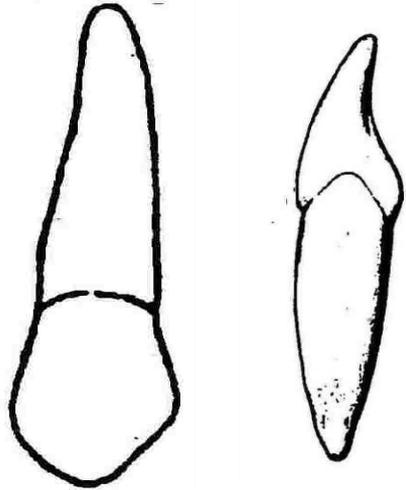
Newly Erupted Teeth



Gingival Recession

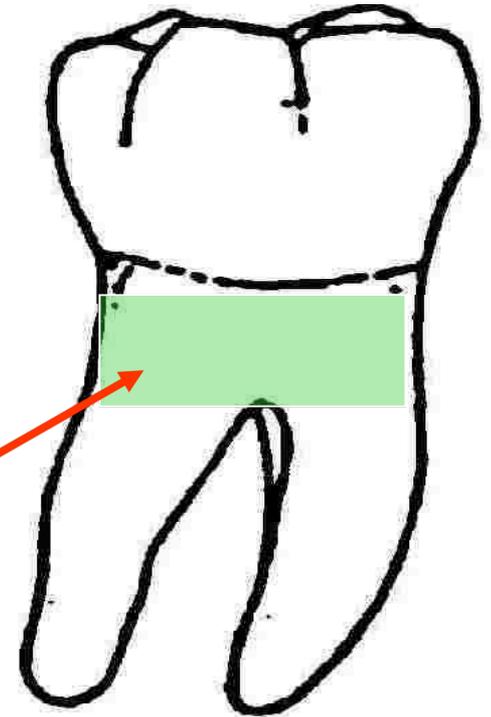
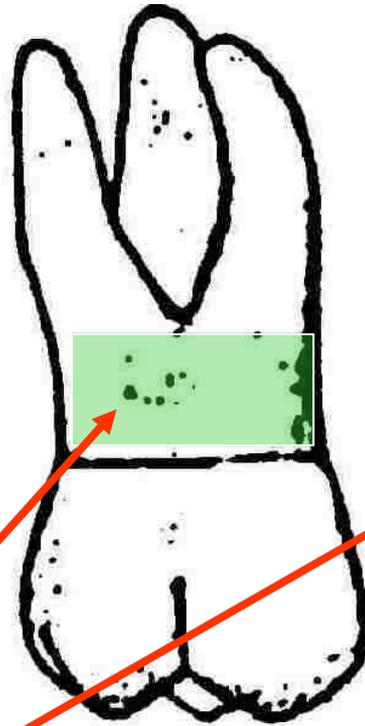


Teeth May Be Divided According To The Number Of Roots



Single rooted teeth

*The undivided portion of the root is called:
Root Trunk.*



Multirooted teeth

- Teeth may be divided according to no. of roots into:



Single rooted teeth

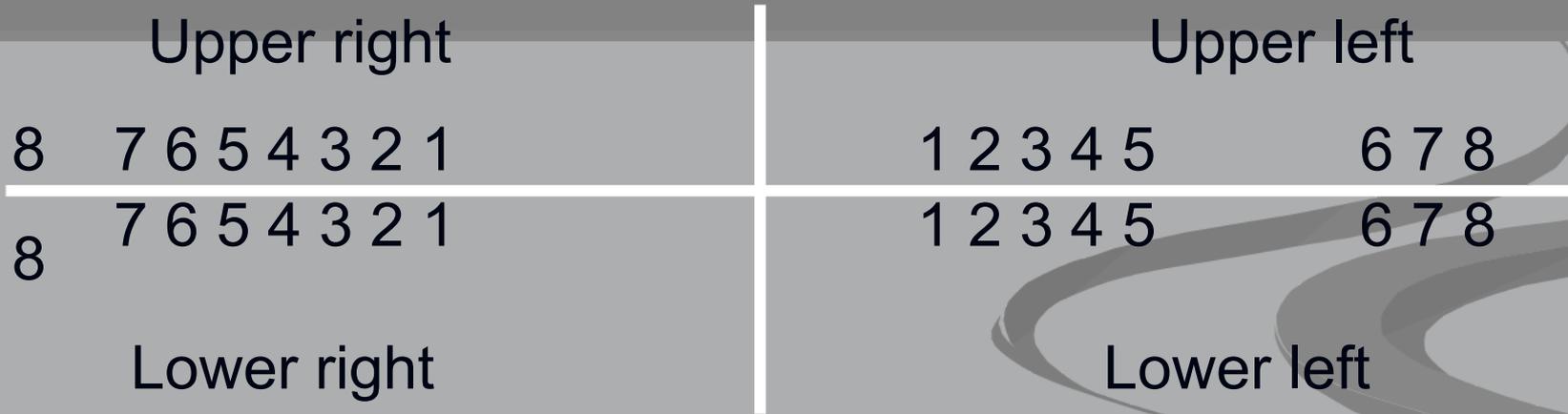


Multirouted teeth

3-Tooth numbering system

1) Palmer Notation System:

The permanent teeth are numbered from 1-8 on each side from the midline.



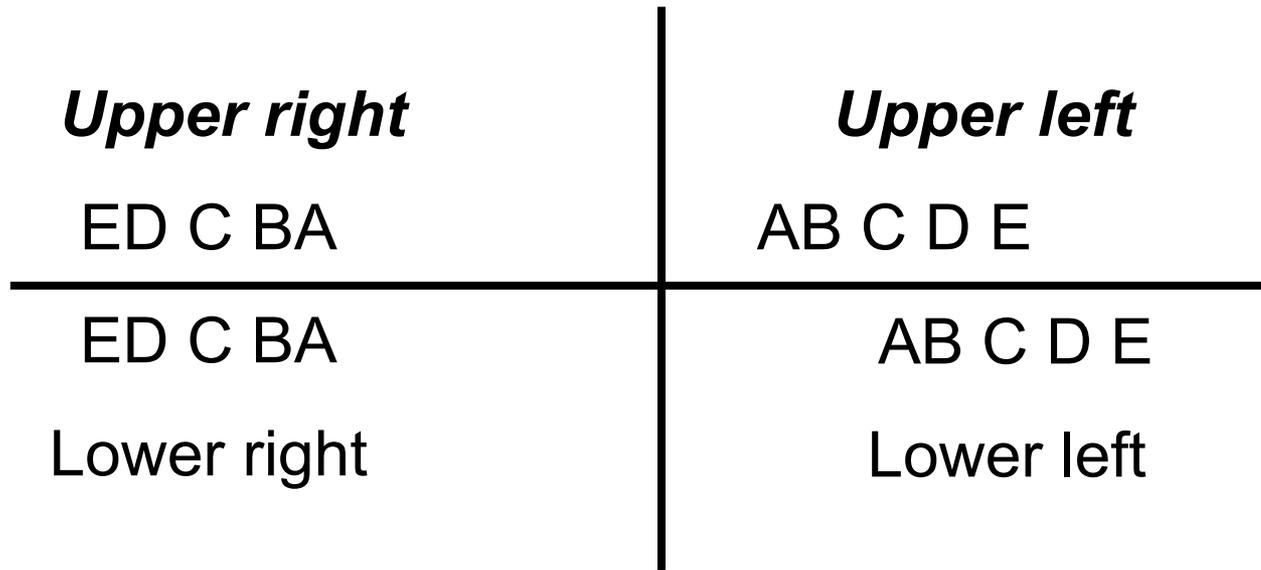
8 | *permanent* upper right third molar

3 | *permanent* upper left canine

5 | Lower left second premolar

1 | *permanent* lower right central incisor

The **deciduous teeth** are lettered from A-E on each side from the midline.



D

Deciduous upper right first molar

B

Deciduous upper left lateral incisor

C

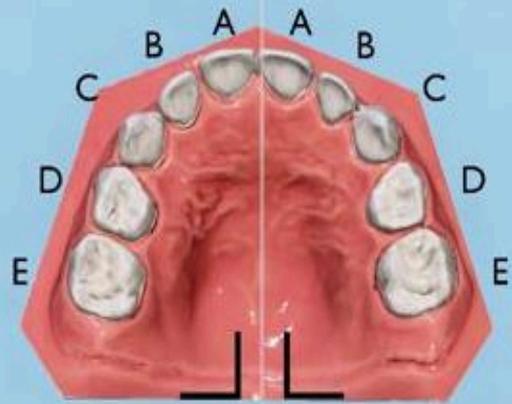
Deciduous lower left canine

E

Deciduous lower right second molar

Upper Right

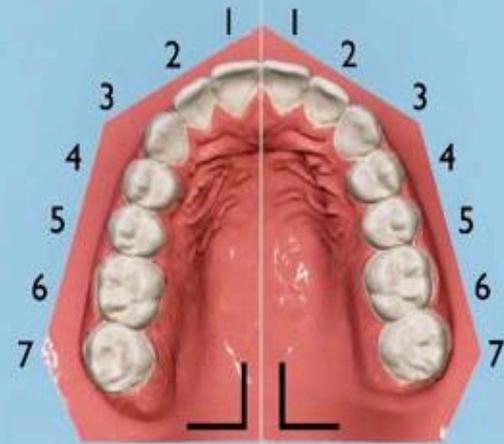
Upper Left



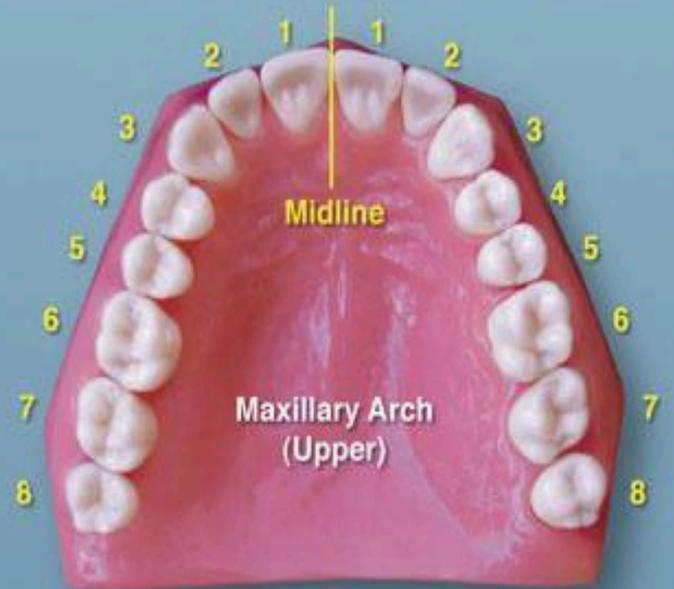
Primary

Upper Right

Upper Left



Secondary



Right

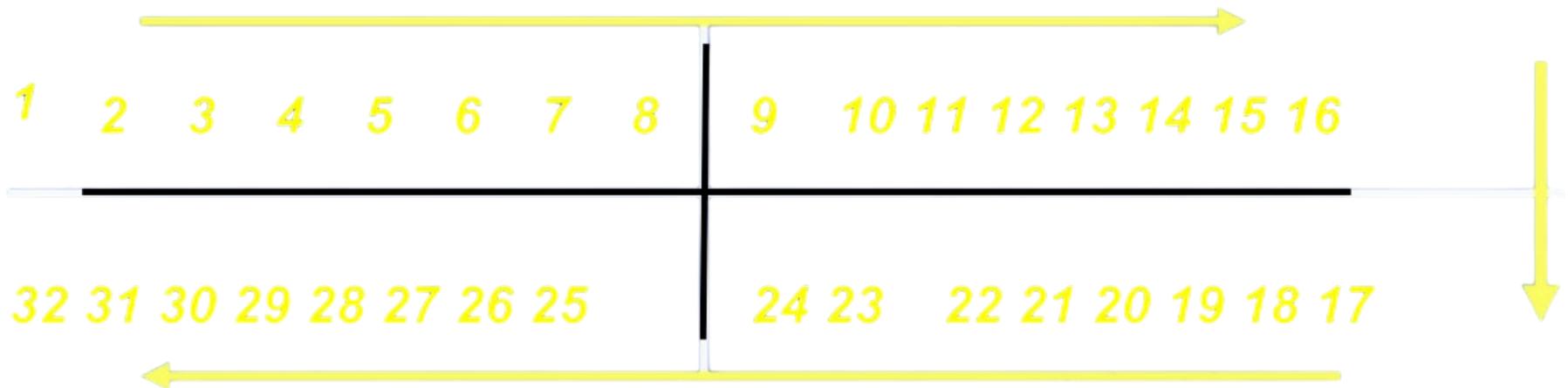
Left



3) The universal numbering system (American numbering system):

The number is always preceded by the sign # to designate that the system is used for universal system.

Permanent teeth (1 – 32)



#23 Permanent Lower right
canine

#16 Permanent upper left third
molar

Permanent teeth

18 17 16 15 14 13 12 11

21 22 23 24 25 26 27 28

48 47 46 45 44 43 42 41

31 32 33 34 35 36 37 38

Permanent upper right first molar

Permanent lower left canine

Deciduous teeth

55 54 53 52 51

61 62 63 64 65

85 84 83 82 81

71 72 73 74 75

Deciduous upper right
second molar

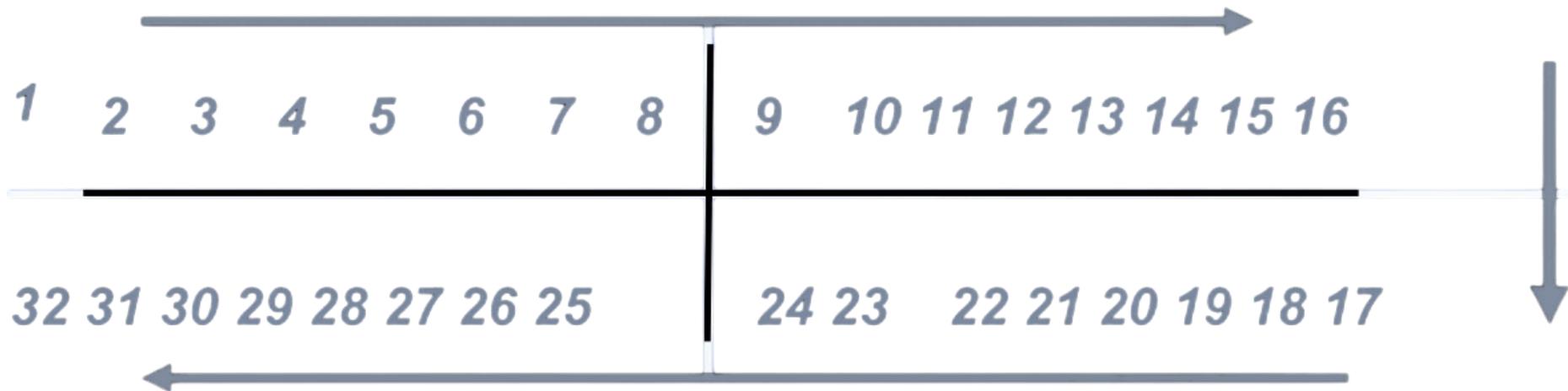
Deciduous lower left lateral
incisor



3) The universal numbering system (American numbering system):

The number is always preceded by the sign # to designate that the system is used for universal system.

Permanent teeth (1 – 32)



#23 Permanent Lower right
canine

#16 Permanent upper left third
molar

Deciduous teeth (1 – 20)

The number is preceded by d #

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>		<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
<i>20 19 18 17 16</i>						<i>15 14 13 12 11</i>				

Or (A - T) The letter is preceded by # only

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>		<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>
<i>T S R Q P</i>						<i>O N M L K</i>				

d# 14 Deciduous lower left lateral incisor

#B Deciduous upper right first molar

Interactive session (Q&A)

□ ***The junctions of tooth tissues are:***

a).....

b).....

c).....

□ ***2- The functions of teeth are:***

a).....

b).....

c).....

d).....

□ ***3-In the international numbering system (digit system) (33)***

is.....

□ **4-The microanatomy of the tooth is formed of three calcified structures which are.....,, andand a soft tissue is called.....**

THANK YOU

