



Oral and Dental Histology

Practical Logbook

For 2nd Year students

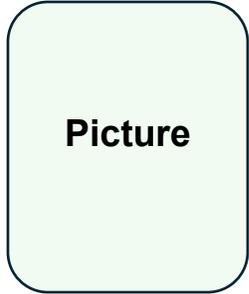
Editors

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1st Edition

University of Mutah
Faculty of Dentistry
2025-2026



Student name:

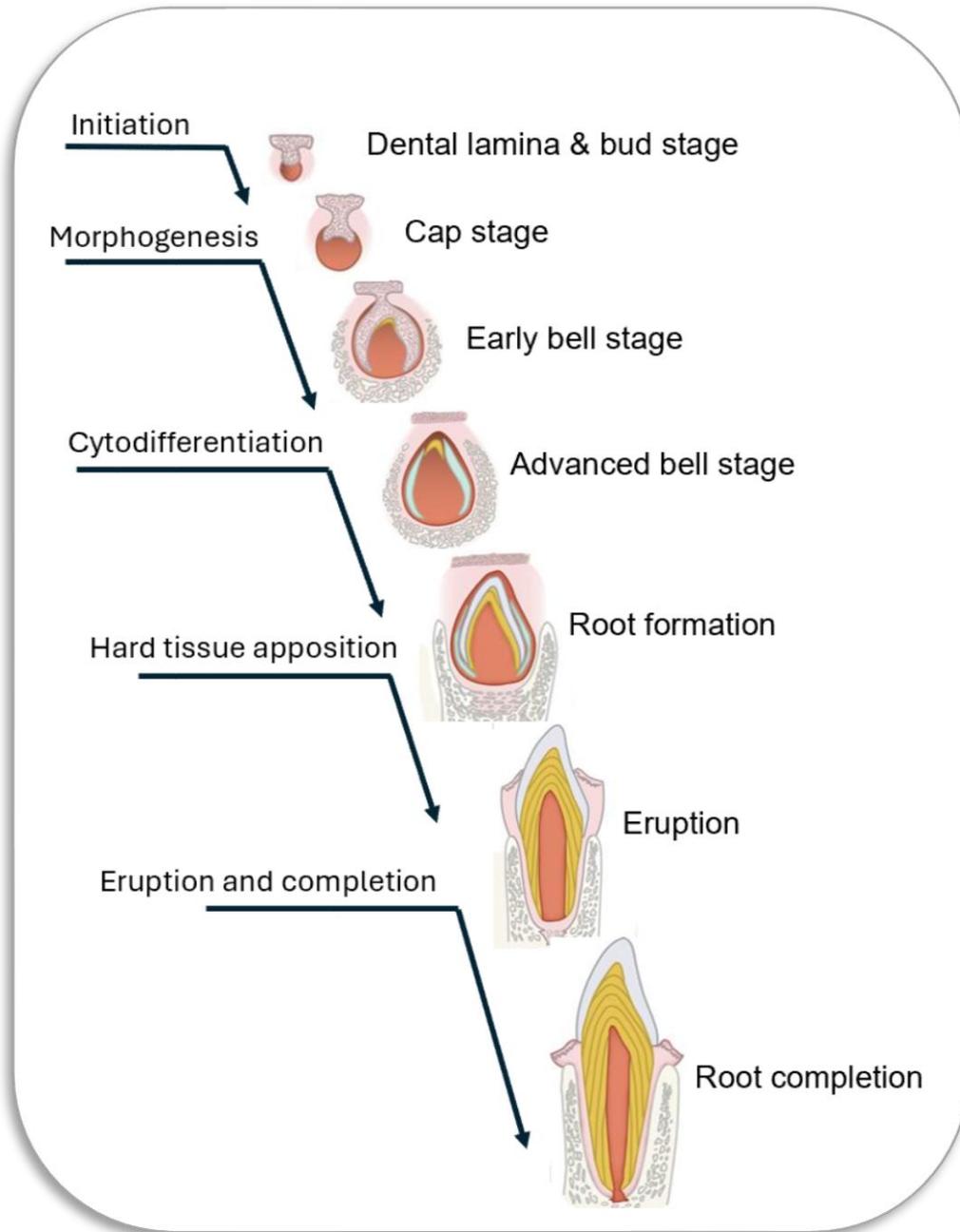
Student ID:

Group No.:

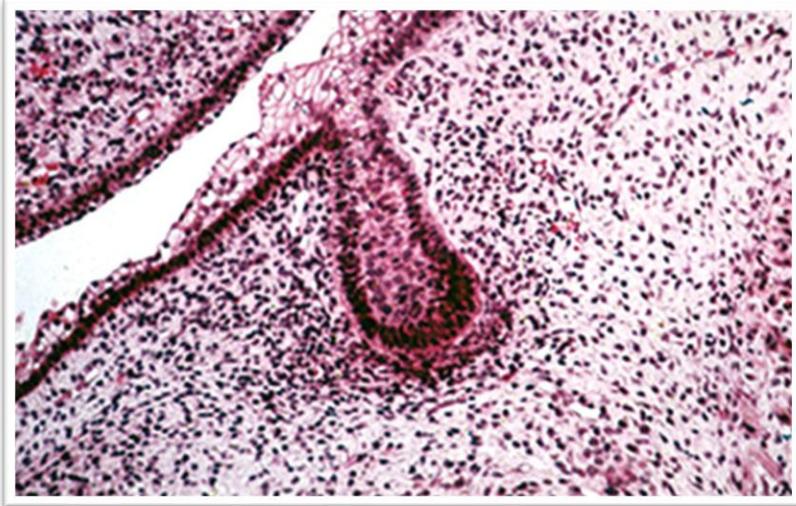
Table of Sections

NO	Topic	Date	Signature
1	Tooth development (Bud and cap stage)		
2	Tooth development (Early and late bell stage)		
3	Root formation		
4	Enamel structure (1)		
5	Enamel structure (1) + Quiz 1		
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7	Revision + Student activity		
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9	Dental pulp		
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11	Eruption and shedding		
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13	Practical exam		

Tooth Development



Section 1



Question 1:

A. Kind of section preparation:

B. Type of staining:

C. Identify this stage of tooth development:

.....

D. Enumerate the tissue structure:

a)

b)

c)

d)

e)

f)

g)

h)

Section 2



Question 1:

What are the four layers of the enamel organ as seen in the early bell stage, and what is their function?

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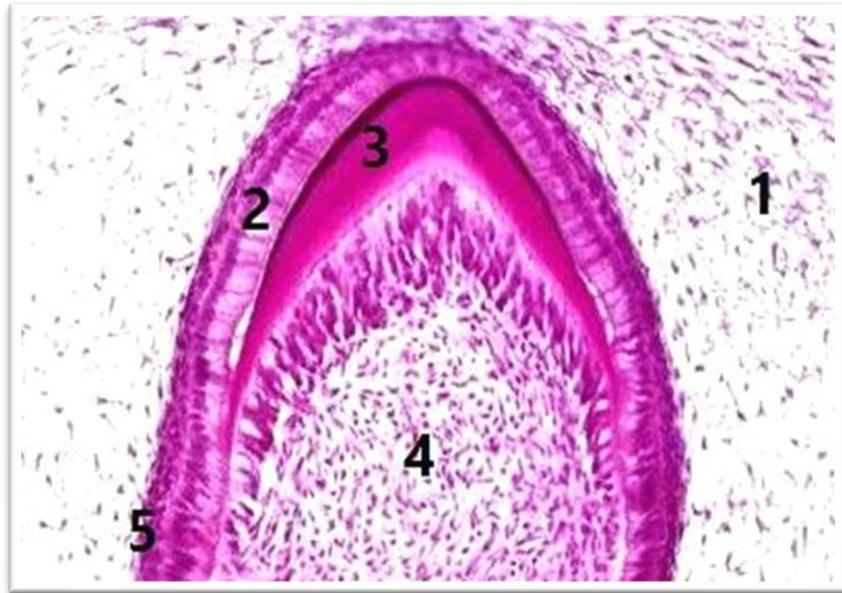
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Question 2:

A. Identify and name the structures labeled (1) to (5).

1.
2.
3.
4.
5.

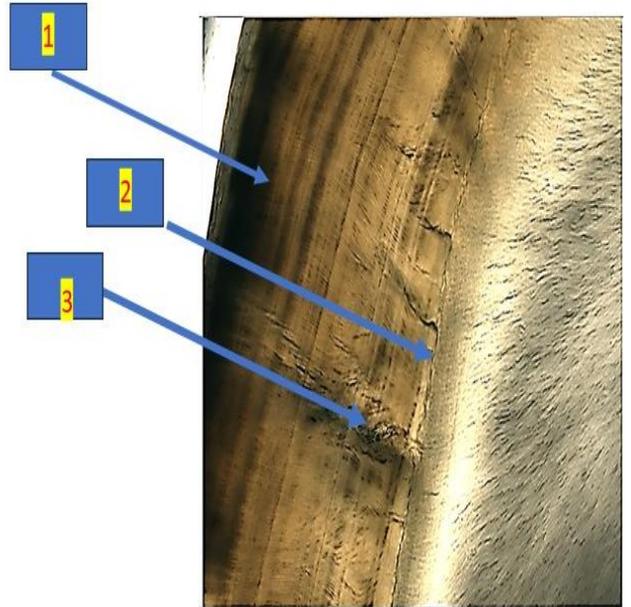
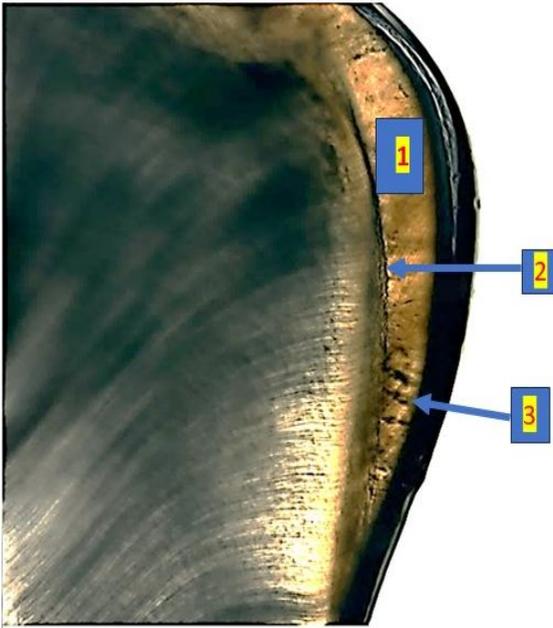
B. How does the bell stage transition from the early to late stages, and what are the key histological features of each stage?

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.....
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.....
.....

Enamel



Section 4



Question 1:

A. Identify the slide regarding the name and type of the histological section.

1. Name:
2. Type:.....

B. Label the numbered structures shown in the slide.

1.
2.
3.

Question 2:

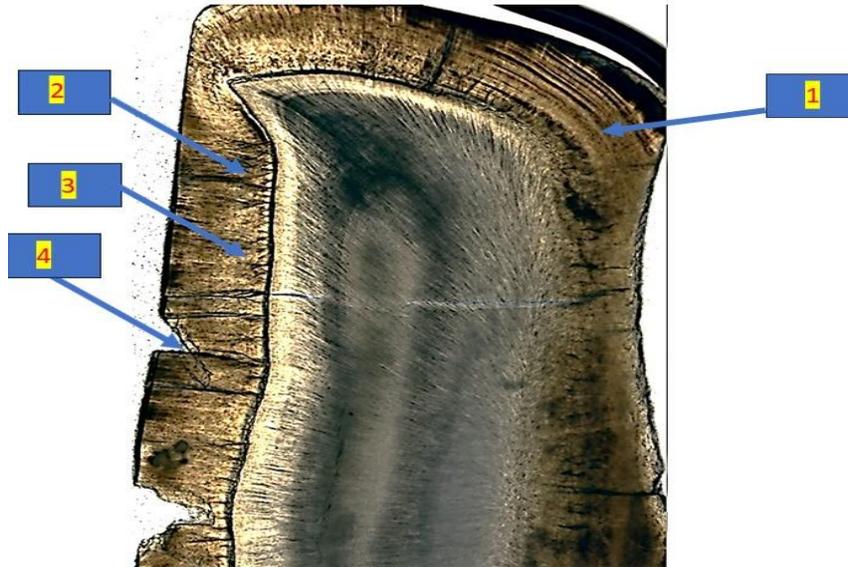
A. Identify the slide regarding the name and type of the histological section.

1. Name:
2. Type:.....

B. Label the numbered structures shown in the slide.

1.
2.
3.

Section 5



Question 1:

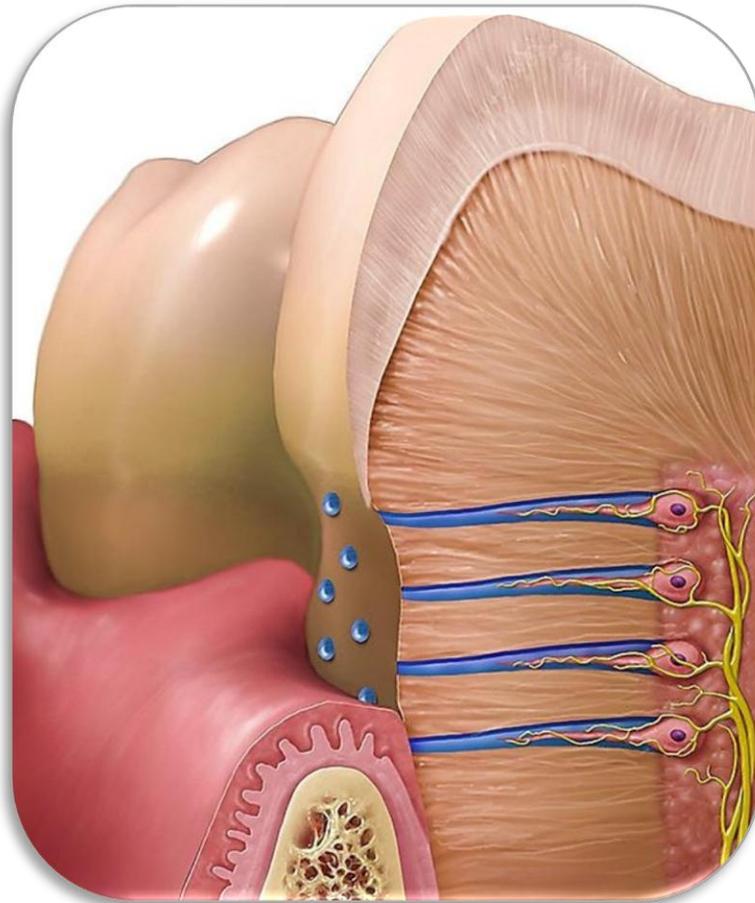
A. Identify the slide regarding the name and type of the histological section.

.....

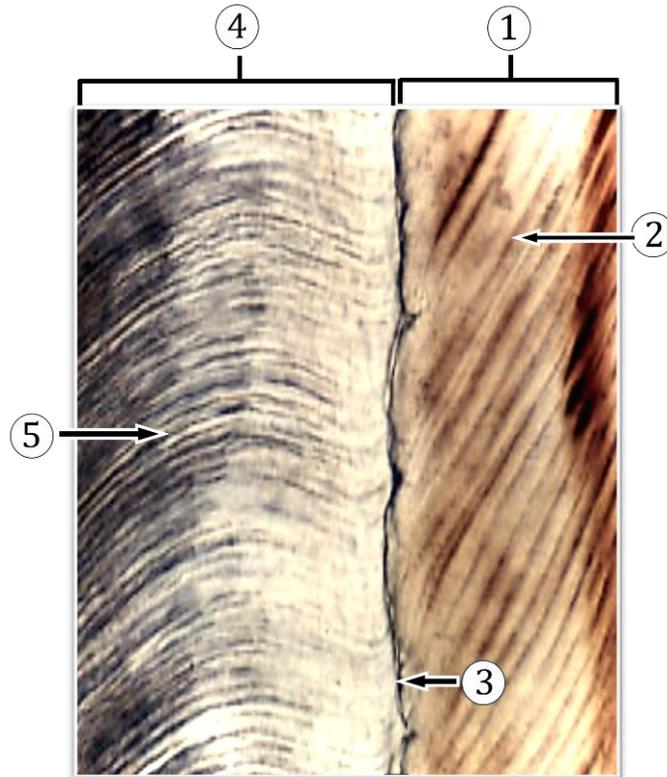
B. Label the numbered structures shown in the slide.

1.
2.
3.
4.

Dentin



Section 6



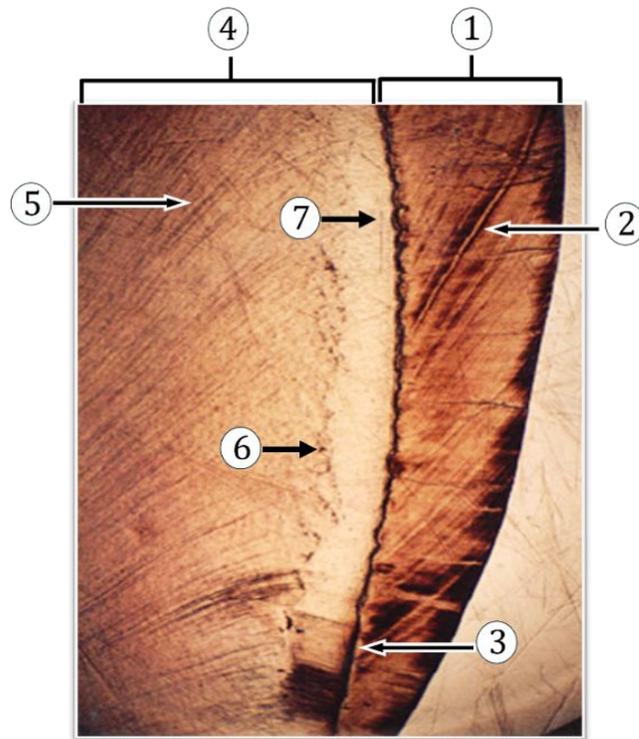
Question 1:

A. Identify the slide regarding the name and type of the histological section.

.....

B. Label the numbered structures shown in the slide.

- 1.
- 2.
- 3.
- 4.
- 5.



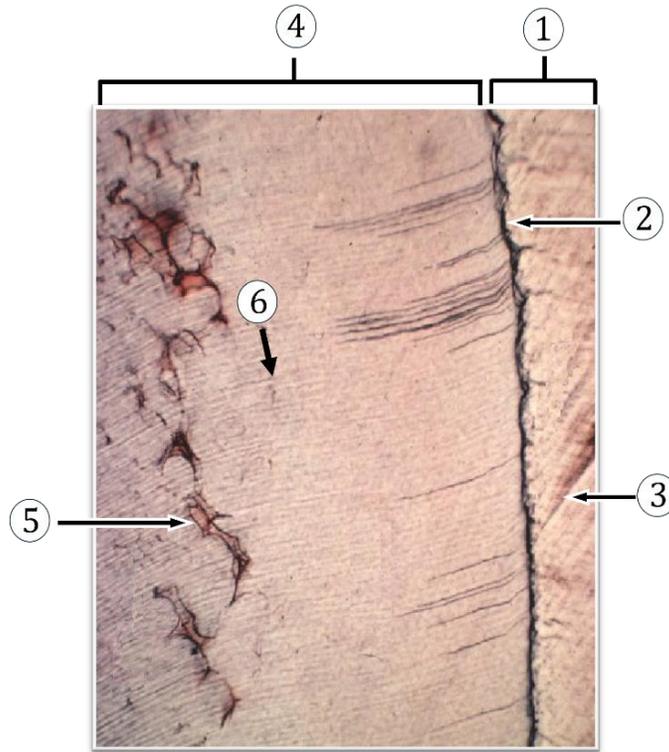
Question 2:

A. Identify the slide regarding the name and type of the histological section.

.....

B. Label the numbered structures shown in the slide.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.



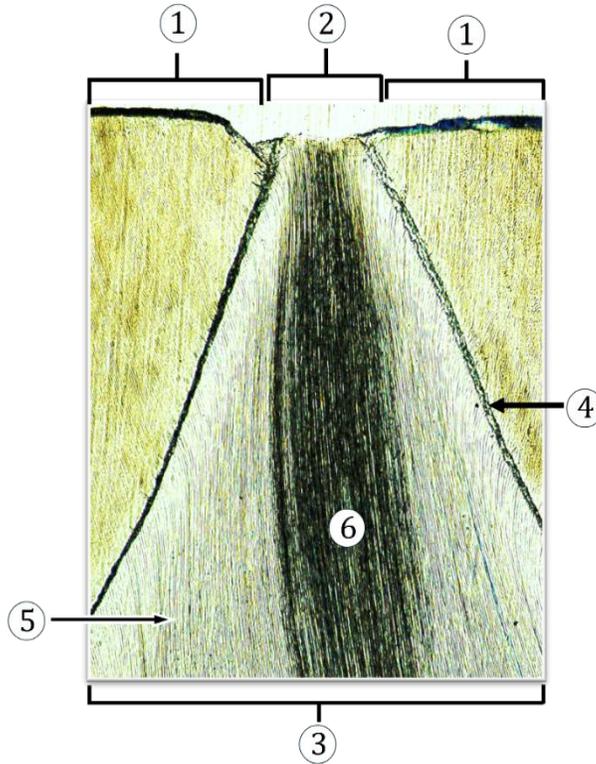
Question 3:

A. Identify the slide regarding the name and type of the histological section.

.....

B. Label the numbered structures shown in the slide.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.



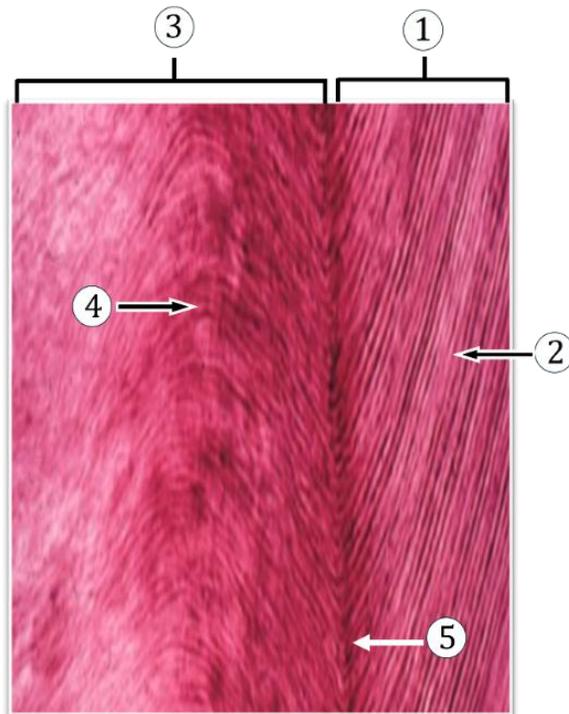
Question 4:

A. Identify the slide regarding the name and type of the histological section.

.....

B. Label the numbered structures shown in the slide.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.



Question 5:

A. Identify the slide regarding the name and type of the histological section.

.....

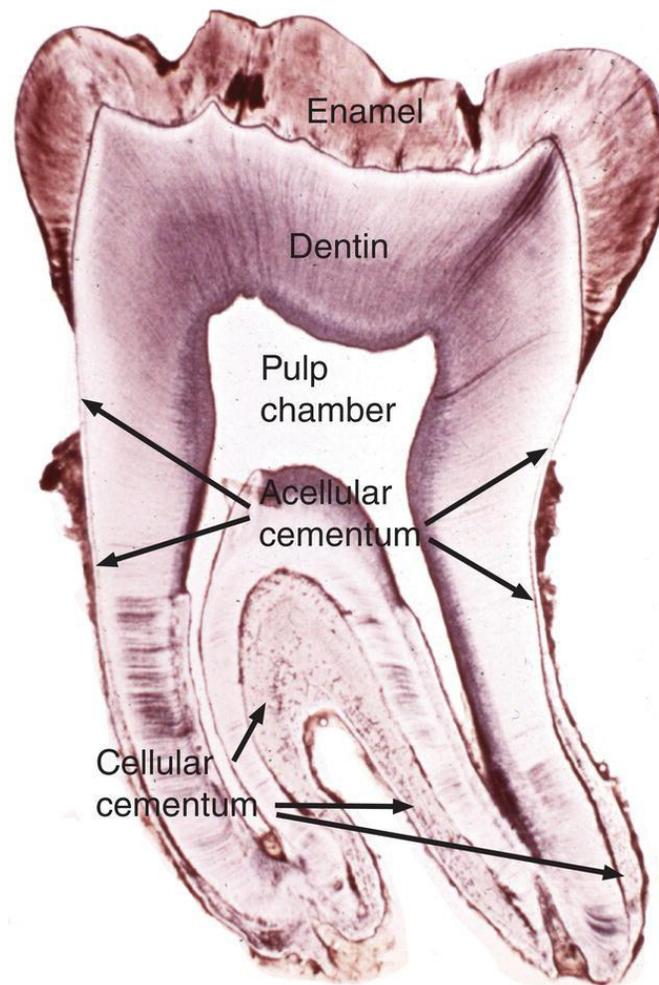
B. Label the numbered structures shown in the slide.

1.
2.
3.
4.
5.

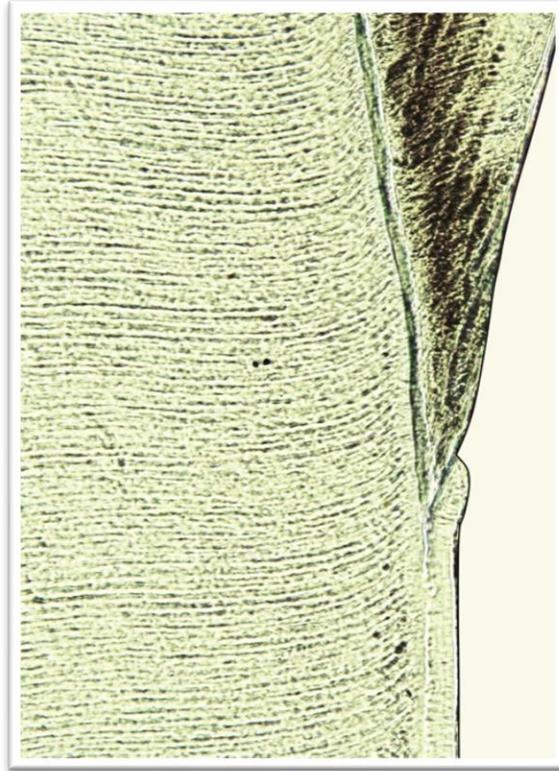
Student Activity

(1)

Cementum



Section 8



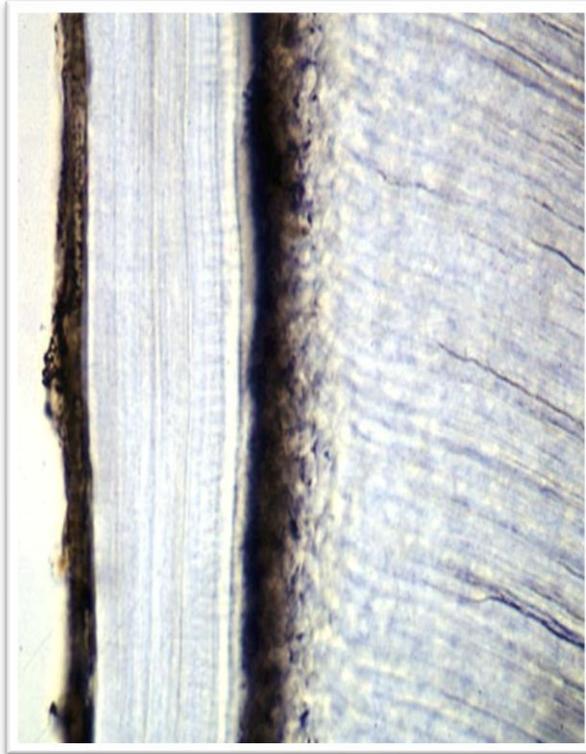
Question 1:

A. Identify the slide regarding the name and type of the histological section.

.....

B. Enumerate all structures shown in this histological slide.

1.
2.
3.
4.
5.



Question 2:

A. Identify the slide regarding the name and type of the histological section.

.....

B. Enumerate all structures shown in this histological slide.

1.
2.
3.
4.



Question 3:

A. Identify the slide regarding the name and type of the histological section.

.....

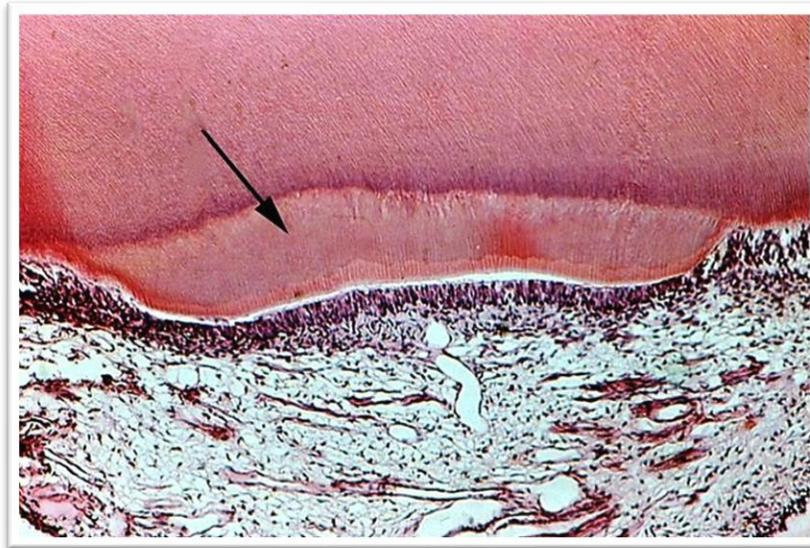
B. Enumerate all structures shown in this histological slide.

1.
2.
3.
4.

Pulp



Section 9



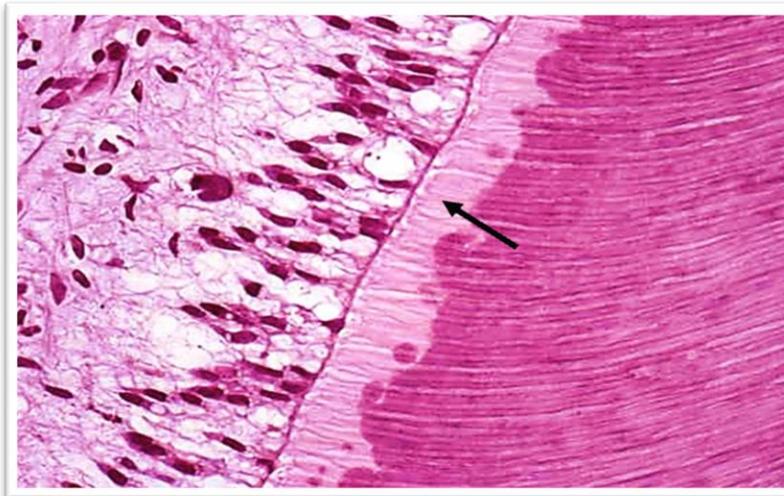
Question 1:

A. Identify the structure indicated by the arrow:

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B. List the different types of reparative dentin and describe the characteristic features of each type:

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Question 2:

A. Kind of section preparation:

B. Type of staining:

C. Identify what the arrow refers to:

.....

D. Enumerate four structures in this section:

a)

b)

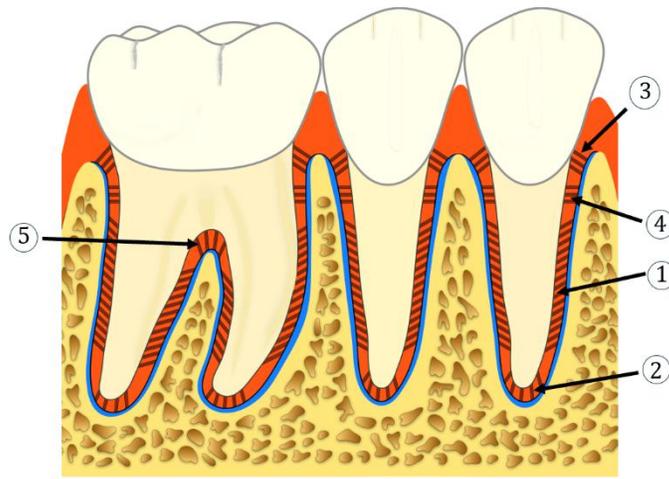
c)

d)

Periodontal ligament (PDL)



Section 10



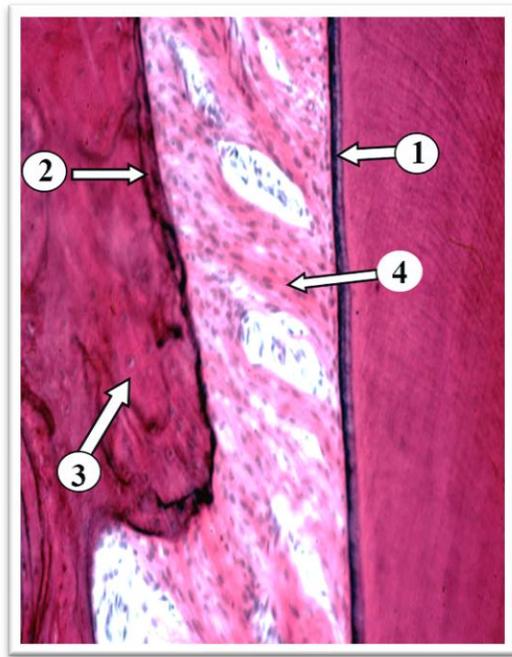
Question 1:

A. Label the numbered fibrous groups shown in the diagram.

1.
2.
3.
4.
5.

B. Mention the types of cells related to periodontal ligaments.

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Question 2:

A. Label the numbered structure shown in the histological slide.

1.
2.
3.
4.

B. Enumerate the types of fibers found in the periodontal ligament.

1.
2.
3.
4.

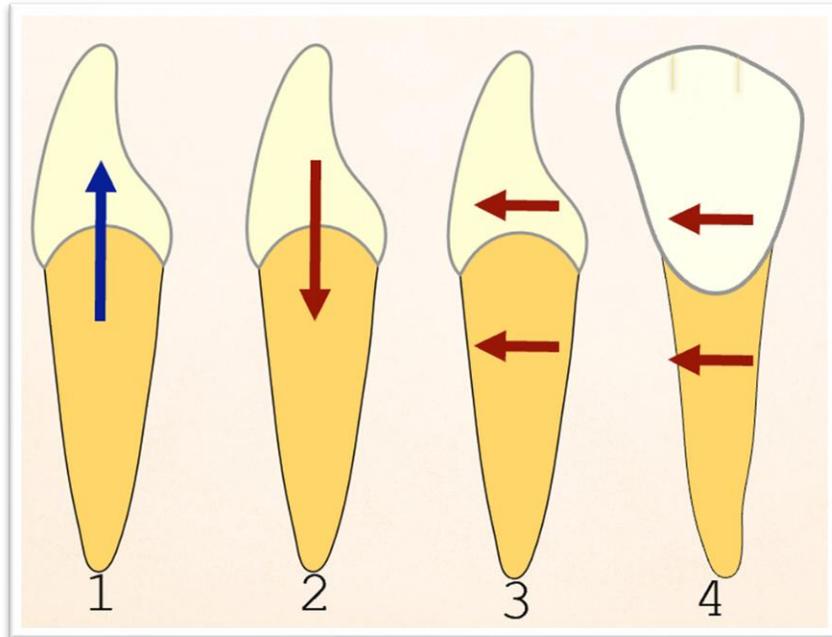
Student Activity

(2)

Eruption & Shedding



Section 12



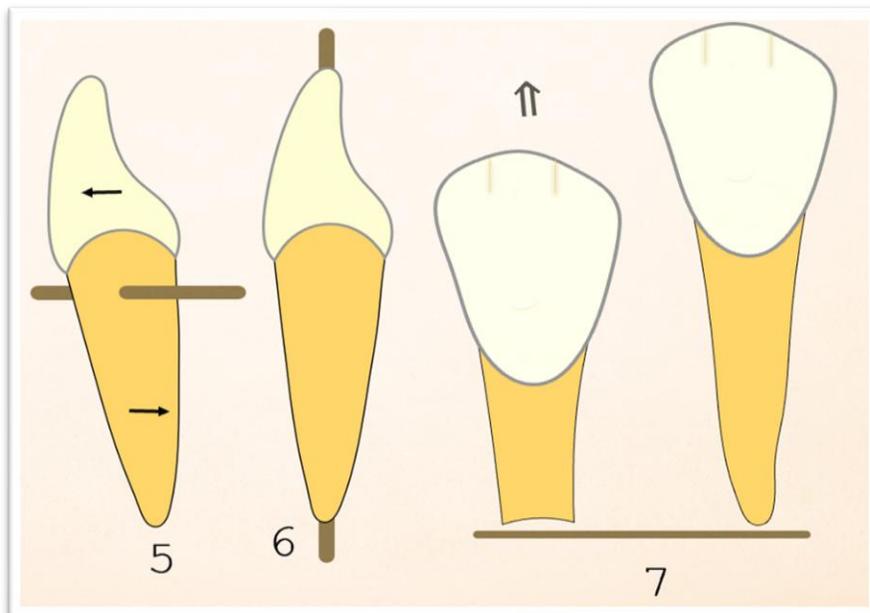
Question 1:

A. Write the names of each type of movement clearly visible in the image.

1.
2.
3.
4.
5.

B. Mention the stages of eruption.

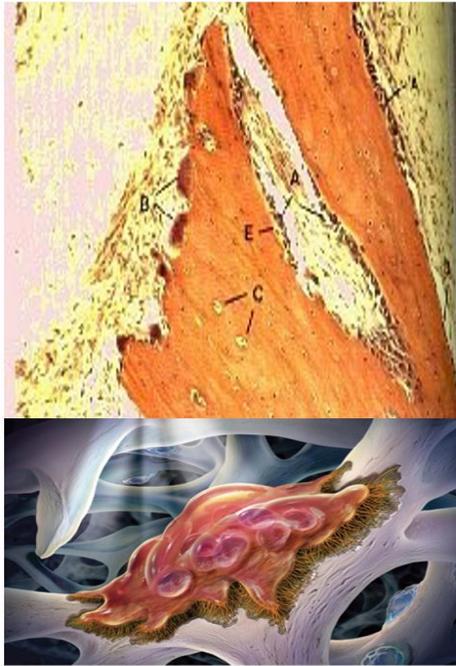
1.
2.
3.



Question 2:

A. Write the names of each type of movement clearly visible in the image.

- 6.
- 7.
- 8.
- 9.
- 10.....



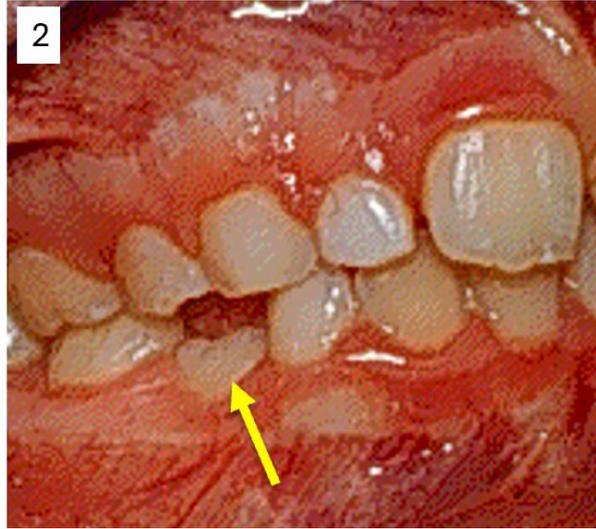
Question 3:

A. Identify the cell shown in the image.

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B. Describe in detail the mechanism by which this cell performs its function.

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Question 4:

Identify the medical conditions clearly demonstrated in the given image.

1.
2.

Evaluation Sheet

NO	Topic		Date	Marks	Signature
1	Tooth development	Dental lamina and bud stage			
		Cap stage			
		Early bell stage			
		Advanced bell stage			
		Root formation			
2	Enamel	Histological structure			
3	Dentin	Structure and age changes			
4	Dental pulp	Histological structure			
5	Cementum	Histological structure			
6	PDL	Histological structure			
7	Eruption	Histological structure			
8	Shedding	Histological structure			