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Roll No. ~~.....~~

B.D.S. I Prof.

**5138(N)**

**B.D.S. Supply & Main Examination, Feb.-2022**

**Dental Anatomy, Embryology & Oral**

**Histology**

**[ BDS-03 (N) ]**

*Time : Three Hours ]*

*[Maximum Marks : 70*

**Note :** Attempt **all** questions. Use separate answer book for part-I & II.

**Part-I**

1. Classify salivary glands. Describe the submandibular salivary gland in detail. 8
2. Describe the morphology of permanent maxillary 1st premolar in detail with clear diagrams. 8
3. Write briefly on :
  - (a) Histology of Maxillary sinus. 5
  - (b) Theories of Eruption. 5
4. Write short notes on :
  - (a) Age changes of pulp. 3
  - (b) Early bell stage. 3
  - (c) Papillae of tongue. 3

## Part-II

5. Describe the Bell stage of tooth development and write in detail about formation of root with detailed diagrams. 8
6. Mention and write in detail about the various tooth numbering systems. 8
7. Write briefly on :
  - (a) Curve of Spee and curve of Monson. 5
  - (b) Secondary and Tertiary Dentin. 5
8. Write short notes on :
  - (a) Alveolar bone 3
  - (b) Cemento Enamel Junction (CEJ) 3
  - (c) Hypocalafied structures of Dentin.3

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D (Printed Pages 2)  
(0421) Roll No. ....  
B.D.S.-I Prof.

5138(N)  
**B.D.S. Supply. & Main  
Examination, April - 2021**  
DENTAL ANATOMY, EMBRYOLOGY AND  
ORAL HISTOLOGY

[BDS-03(N)]

*Time : Three Hours ] [Maximum Marks : 70*

**Note :** Attempt **all** questions. Use separate  
answer book for Part-I and Part-II.

**Part - I**

- 1. Write in detail the differences between permanent and deciduous teeth. Write a note on eruption sequence and timing of deciduous dentition. 10
- 2. Describe stages in the life cycle of an ameloblast. 10

P.T.O.

3. Write short notes on:

(a) Zsigmondy-Palmer Notation system

5

(b) Advanced bell stage

5

(c) Papilla of tongue

5

**Part - II**

4. Describe morphological characteristics of maxillary first premolar. Write the differences between maxillary first premolar and maxillary second premolar.

10

5. Classify oral mucous membrane. Describe the layers of Keratinized mucosa and add a note on gingiva.

10

6. Write short notes on:

(a) Volkman's canal

5

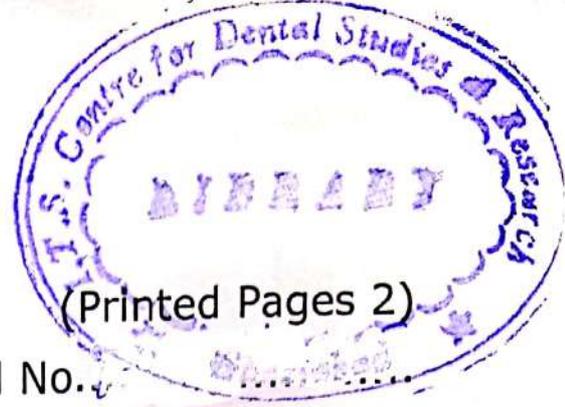
(b) Simian space

5

(c) Cusp of Carabelli

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Roll No.

B.D.S.-I Prof.

**5138(N)**

**B.D.S. Supply. & Main Examination,**

**Nov. - 2020**

**Dental Anatomy, Embryology and**

**Oral Histology**

**[BDS-03(N)]**

*Time : Three Hours ]*

*[Maximum Marks : 70*

**Note :** Attempt **all** questions. Use separate answer book **Part I & Part II.**

**Part-I**

1. Describe morphological characteristics of maxillary first permanent molar. Write the differences between permanent maxillary first molar and permanent maxillary second molar. 10
2. Enumerate and describe the various stages of tooth development in detail . 10

**P.T.O.**

3. Write short notes on :

- |                          |   |
|--------------------------|---|
| (a) Curve of Wilson      | 5 |
| (b) Embrasures           | 5 |
| (c) Minor salivary gland | 5 |

### **Part-II**

4. Describe the various types of dentin and their functions. 10

5. Describe the microscopic structure and function of periodontal ligament. 10

6. Write short notes on :

- |                                   |   |
|-----------------------------------|---|
| (a) FDI system of tooth notation. | 5 |
| (b) Brachial arches.              | 5 |
| (c) Histology of maxillary sinus. | 5 |

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Roll No. ....

B.D.S.-I Prof.

**5138(N)**

**B.D.S. Supply. & Main Examination,  
November-2019**

**(Dental Anatomy, Embryology & Oral  
Histology)**

**[BDS-03(N)]**

*Time : Three Hours]*

*[Maximum Marks : 70*

**Note :** Attempt all questions. Illustrate your answers with suitable diagram wherever necessary. Use separate copy for **Part-I** and **Part-II**.

**Part-I**

1. Describe and illustrate the status of dentition at the age of ten years. 10
2. What is dentinogenesis ? Describe in detail, dentinogenesis. Enumerate the age changes seen in dentin. 10
3. Write short notes on :
  - (a) Occlusal aspect of maxillary first molar. 5
  - (b) Enumerate the different tooth numbering systems. Add a note on its importance. 5
  - (c) Muscles of mastication. 5

**5138(N)**

**[P.T.O.**

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**Part-II**

1. Classify oral mucosa. Describe in detail histology of Gingiva. 10
2. Enumerate the stages in development of tooth. Draw a well labelled diagram of Advanced Bell Stage. State the function of each cell type in advanced bell stage. 10
3. Write short notes on
  - (a) Histological zones of pulp. 5
  - (b) Principal fibres of periodontal ligament. 5
  - (c) Pericytes

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B.D.S.-I Professional

5138(N)

B.D.S. Supply. & Main Examination,  
November-2018

DENTAL ANATOMY, EMBRYOLOGY &  
ORAL HISTOLOGY

(BDS-03N)

*Time : Three Hours] [Maximum Marks : 35+35=70*

*Note : (i) Attempt all the questions.*

*(ii) Draw diagram wherever required.*

*(iii) Use separate copy for Part-I and Part-II.*

**Part-I**

1. Define and classify oral mucous membrane. Discuss the clinical and histological features of gingiva in detail. 8
2. Classify and discuss the cells of periodontal ligament in detail. 8
3. Write notes on : 2×5=10
  - (a) Theories of Dentin Sensitivity
  - (b) Cellular and Acellular cementum

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4. Write short notes on - 3×3=9

- (a) Surface structure of Enamel
- (b) Defence cells of pulp
- (c) Development of Tongue

### Part-II

1. Describe the morphology of permanent maxillary canine in detail. 8

2. Discuss the development of Mandible in detail. 8

3. Write notes on - 2×5=10

- (a) Composition and Functions of Saliva
- (b) Importance of Deciduous Dentition

4. Write short notes on : 3×3=9

- (a) Muscles of Mastication
- (b) Compensating curves
- (c) Bundle Bone

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B.D.S. - I Prof.

5138(N)

**B.D.S. Supply & Main**

**Examination, Nov-2017**

**Dental Anatomy, Embryology &**

**Oral Histology**

**BDS-03(N)**

*Time : Three Hours ] [Maximum Marks : 70*

**Note :** Attempt all questions. Use separate answer book for Part-I and Part-II

**Part-I**

1. Define Shedding. Describe the mechanism of Resorption and Shedding. 8
2. Classify oral mucosa on the basis of functional criteria. Describe Masticatory mucosa in detail. 8

**P.T.O.**

3. Write short notes on :
- (a) Saliva - Composition and function. 5
  - (b) Development of tongue. 5
4. Discuss in brief.
- (a) Cementogenesis. 9
  - (b) muscles of Mastication. 9
  - (c) COL 9

**Part - II**

1. Describe with the help of diagrams, The occlusal aspect of maxillary first Permanent Molar. Give points differentiating it from Mandibular first permanent molar. 8
2. What are Salivary Glands? Describe the structure of Human Salivary glands. 8
3. Write short notes on :
- (a) Theories of eruption of tooth. 5
  - (b) Types of Dentin. 5

4. Discuss briefly :
- (a) Sharpey's fibres. 3
  - (b) Age changes in dental hard tissues 3
  - (c) Antrum of Highmore. 3

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Roll No. ....

B.D.S. I Prof.

5138(N)

B.D.S. Supply & Main Examination,

Nov. - 2016

Dental Anatomy, Embryology & Oral Histology

BDS-03

*Time : Three Hours ] [Maximum Marks : 70*

**Note :** Attempt **all** questions. Use separate answer book for **Part-I** & **Part-II**.

**Part-I**

1. Write in detail about Hertwigs Epithelial root sheath and discuss root formation. 8
2. Describe histology and mechanism of tooth movement. 8
3. Write short notes :
  - (a) Regressive changes in the pulp tissue. 5
  - (b) Functions of Cementum. 5

P.T.O.

4. Write briefly on.
- (a) Unique features of Periodontal Ligament. 3
  - (b) Spongy bone. 3
  - (c) Melanocytes. 3

**Part-II**

5. Write in detail about Morphology of Mandible. 8
6. Discuss various Nomenclature System of Deciduous and permanent teeth. 8
7. Write short notes.
- (a) Maxillary Nerve 5
  - (b) Eruption timing and sequence of eruption of permanent teeth. 5
8. Write briefly on :
- (a) Cusp of Carabelli 3
  - (b) Oblique ridge 3
  - (c) Spill ways. 3



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Roll No. ....

B.D.S I Prof.

5138(N)

**B.D.S. Supply & Main Examination,  
Feb. 2016**

**Dental Anatomy, Embryology & Oral**

**Histology**

**(BDS-03)**

*Time : Three Hours ]*

*[Maximum Marks : 70*

**Note :** Attempt all questions. Use separate answer book for Part-I & Part-II.

**Part - I**

1. Classify Oral Mucous Membrane. Write in detail about histology of guinea.
2. Classify cementum. Write about cementogenesis and the functions of cementum. 8

P.T.O.

3. Write short notes on :
- (a) Ductal system of major salivary glands. 5
  - (b) Life cycle of Ameloblasts 5
4. Write briefly on :
- (a) Structure of a taste bud 3
  - (b) Stellate Reticulum 3
  - (c) Periodontal ligament fibres 3

**Part - II**

5. Discuss in detail about the chronology and morphology of permanent mandibular right First Molar. 8
6. Eruption - define, explain the theories of eruption and mention the eruption time period of all the permanent teeth. 8

7. Write short notes on :
- (a) Development of palate. 5
  - (b) Muscles of mastication. 5
8. Write briefly on :
- (a) Spillway space 3
  - (b) Alveolar bone proper 3
  - (c) Chronology of permanent teeth 3

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Roll No. 9985038

B. D. S. I Prof.

**5138(N)**

**B. D. S. Supply. & Main Examination, Oct. 2015**

**Dental Anatomy, Embryology & Oral Histology**

**[BDS - 03(N)]**

*Time : Three Hours]*

*[Maximum Marks : 70*

*Note : Attempt all questions. Use separate answer book for Part-I and Part-II.*

**Part-I**

**[Marks : 35**

1. Discuss Dentogingival Junction. Describe its development and shift. Emphasize migration of epithelial attachment. 8
2. Write in detail about the structure of Dentin. 8
3. Write short notes :
  - (a) Physical and chemical characteristics of Enamel 5
  - (b) Dentine Sensitivity. 5

4. Write briefly on :
- (a) Composition of saliva 3
  - (b) Enamel hypoplasia 3
  - (c) Processing of hard tissue for microscopic study. 3

**Part-II**

[Marks : 35

5. Describe in detail the morphology of corner stones of the dental arches. 8
6. Discuss in detail the major contrast of the deciduous and permanent teeth. 8
7. Write short notes :
- (a) Ridges 5
  - (b) Line angle and point angle. 5
8. Write briefly on :
- (a) Dental formula 3
  - (b) Canine eminence 3
  - (c) Central fossa. 3

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M (Printed Pages 3)

(21014) Roll No. ....

B.D.S. I Prof.

**5138 (N)**

**B.D.S. Supply & Main Examination,**

**Oct. 2014**

**Dental Anatomy, Embryology & Oral**

**Histology | ✓**

**(BDS-03)**

*Time : Three Hours ]*

*[ Maximum Marks : 70*

**Note:** Attempt **all** questions. Use separate answer book for Part-I & Part-II.

**Part - I**

1. Write in detail about the structure of dentin and its types. Add a note on age changes of dentin. 8

**P.T.O.**

2. Write an essay about tooth development.  
Add a note on histological and morphological differentiation of odontogenesis 8
3. Write short notes on :
- (a) Theories of dentinal sensitivity 5
  - (b) Histology of cementum 5
4. Write briefly on :
- (a) Functions of Periodontal ligament 3
  - (b) Enamel lamellae and tufts 3
  - (c) Nertwig's epithelial root sheath. 3

**Part - II**

5. Classify salivary glands. Discuss in detail about the histology of major salivary glands with suitable diagrams. 8

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6. Describe the differences between deciduous and permanent dentition. Describe the occlusal morphology of permanent maxillary right first molar. 8
7. Write short notes on :
- (a) Endochondral ossification 5
  - (b) Occlusal surface of Mandibular II Premolar 5
8. Write briefly on :
- (a) Define centric occlusion and centric relation. 3
  - (b) Non-Keratinocytes 3
  - (c) Ridges 3

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Roll No. ....

**BDS-I Prof.**

**5138(N)**

**B. D. S. (Main & Supply.) Examination, Sept. 2013**

**Paper-III**

**Dental Anatomy, Embryology & Oral Histology**

**(BDS-03)**

*Time : Three Hours]*

*[Maximum Marks : 70*

*Note : Attempt all questions. Use separate copy for Part-I and Part-II. Draw diagrams wherever necessary.*

**Part-I**

**[Marks :35**

1. Write in detail all the following : 8×2=16
    - (a) Discuss stages in the development of tooth.
    - (b) Classify dentin and discuss structure of dentin.
-

(2)

2. Write briefly on the following :  $5 \times 2 = 10$
- (a) Incremental lines
  - (b) Specialized mucosa.
3. Write short notes on the following :  $3 \times 3 = 9$
- (a) Pulp stones
  - (b) Enamel tufts and spindles
  - (c) Osteoclasts.

**Part-II**

[Marks :35

1. Write in detail all the following :  $8 \times 2 = 16$
- (a) Describe the morphologic features of permanent maxillary canine and draw neat labelled diagrams.
  - (b) Discuss various theories of eruption of tooth.
2. Write briefly on the following :  $5 \times 2 = 10$
- (a) Principal fibres of periodontal ligament.
  - (b) Occlusal aspect of permanent maxillary first molar.
3. Write short notes on the following :  $3 \times 3 = 9$
- (a) Cellular cementum
  - (b) Serous acini
  - (c) Tooth numbering system.

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47, Knowledge Park-II, Greater Noida

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Roll No. ....

**B.D.S. I Prof.**

**5138(N)**

**B. D. S. Examination, August 2012**

**Dental Anatomy, Embryology & Oral Histology**

**(BDS-03N)**

*Time : Three Hours]*

*[Maximum Marks : 70*

*Note : Attempt all questions. Use separate copy for Part-I and Part-II. Draw diagrams wherever necessary.*

**Part-I**

1. Describe the morphological and histological differences between primary and permanent teeth. 8
2. Describe the histological structures of enamel and discuss how its biological status differs from rest of dental tissue. 8

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ITS Dental College Hospital & Research Centre  
49, Sankar Park-III, Greater Noida

(2)

- 3. Write notes on the following: 5×2=10
  - (a) Function of Saliva
  - (b) Physiologic root resorption.
- 4. Write short notes on the following: 3×3=9
  - (a) Structure of Odontoblast
  - (b) Pulp stones
  - (c) Development of Mandible

Part-II

- 1. Classify Oral Mucosa. Discuss the functional adaptations of masticatory mucosa in different parts of the oral cavity. 8
- ~~2.~~ Describe the morphology of permanent Maxillary first molar tooth. 8
- 3. Write notes on the following: 5×2=10
  - (a) Basal bone.
  - (b) Contact areas.
- 4. Write short notes on the following: 3×3=9
  - (a) Resorptive cells
  - (b) Cemento-enamel junction
  - (c) Bell stage of tooth development.

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Roll No. ....

**B.D.S.-I Professional**

**5138(N)**

**B.D.S. Examination, Dec. 2011**

**Dental Anatomy, Embryology & Oral**

**Histology**

**(BDS-03)**

*Time: Three Hours ]*

*[ Maximum Marks : 70*

**Note :** Attempt all questions. Use separate copy for Part I & Part II. Draw Diagrams Wherever Necessary.

**Part - I**

1. (a) Discuss in detail Early Bell and Advanced Bell stage of tooth development. 8

**P.T.O.**

(b) Describe the hypocalcified structures of enamel.

8

2. Write briefly on :

(a) Cellular and acellulae cementum

5

(b) Non-Keratinocytes

5

3. Write short notes on :

(a) Tertiary dentin

3

(b) Bundle bone

3

(c) Odontoclast

3

#### Part - II

1. (a) Describe in detail the morphology of Permanent Mandibular First molar with neat diagrams. 8

(b) Describe the cells of the Periodontal ligament.

8

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2. Write briefly on :

- (a) Functions of saliva 5
- (b) Development of palate 5

3. Write short notes on :

- (a) Leeway space of Nance 3
- (b) Tooth numbering systems 3
- (c) Ridge and its types 3

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(Printed Pages 3)

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Roll No. ....

**B.D.S.-I Professional**

**5138(N)**

**B.D.S. Examination, Dec. 2011**

**Dental Anatomy, Embryology & Oral**

**Histology**

**(BDS-03)**

*Time: Three Hours ]*

*[ Maximum Marks : 70*

**Note :** Attempt all questions. Use separate copy for Part I & Part II. Draw Diagrams Wherever Necessary.

**Part - I**

1. (a) Discuss in detail Early Bell and Advanced Bell stage of tooth development. 8

**P.T.O.**

(b) Describe the hypocalcified structures of enamel.

8

2. Write briefly on :

(a) Cellular and acellulae cementum

5

(b) Non-Keratinocytes

5

3. Write short notes on :

(a) Tertiary dentin

3

(b) Bundle bone

3

(c) Odontoclast

3

#### Part - II

1. (a) Describe in detail the morphology of Permanent Mandibular First molar with neat diagrams. 8

(b) Describe the cells of the Periodontal ligament.

8

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2. Write briefly on :

- |                           |   |
|---------------------------|---|
| (a) Functions of saliva   | 5 |
| (b) Development of palate | 5 |

3. Write short notes on :

- |                             |   |
|-----------------------------|---|
| (a) Leeway space of Nance   | 3 |
| (b) Tooth numbering systems | 3 |
| (c) Ridge and its types     | 3 |

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(21110)

Roll No. ....

B.D.S. I Prof.

**5138 (N)**

**B.D.S. Examination Nov. 2010**

**Dental Anatomy, Embryology and oral**

**Histology**

**Paper - III**

**BDS - 03 (N)**

*Time : Three Hours /*

*[ Maximum Marks : 70*

**Section - 'A'**

1. Write in detail :

2×8=16

- (a) What is Periodontium? Write in detail the Histology of principal Fibres of the periodontal Ligament. Draw neat labeled diagrams. 8
- (b) List the stages of Odontogenesis. Describe cap

P.T.O.

- stage of tooth development in detail, along with diagrams. 8
2. Write briefly : 2×5=10
- (a) Steps of deglutition 5
  - (b) Incremental lines in enamel, Dentin & Cementum. 5
3. Write short notes on : 3 x 3 = 9
- (a) Lamina Dura and it's importance. 3
  - (b) Zones of the Pulp 3
  - (c) Occlusal surface of maxillary I premolar. 3

**Section - 'B'**

1. Write in detail : 2×8=16
- (a) Describe the Morphologic features of permanent maxillary I molar. Draw neat labeled diagrams. 8
  - (b) Classify Oral Mucosa. Write in detail the Histology of specialized Mucosa. 8

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2. Write Briefly :  $2 \times 5 = 10$

(a) Differences between Primary & Permanent Teeth. 5

(b) Define Fossa. Explain in detail, types of Fossa with the help of diagrams. 5

3. Short notes :  $3 \times 3 = 9$

(a) Function of Saliva 3

(b) Perikymata 3

(c) Non-Keratinocytes. Mention it's function. 3

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B.D.S. I Prof.

**5138 (N)**

**B.D.S. Examination Sept. - 2009**

Dental Anatomy, Embryology and Oral Histology

**BDS - 03**

**(New)**

Time: Three Hours

Maximum Marks : 70

**Note:** Attempt **All** the questions. Use separate Ans. Books for Part A and B.

**Section 'A'**

1. Write in detail about the following : (2x8=16)
  - (a) Enumerate stages of tooth development. Describe bell stage in detail. 8
  - (b) Classify Oral Mucous Membrane. Describe the dorsal surface of tongue with the help of well labelled diagrams. 8
  
2. Write briefly on the following: (2x5=10)
  - (a) Clinical Consideration of pulp cavities. 5
  - (a) Structure and clinical considerations of alveolar bone. 5
  
3. Write short notes on - 3x3=9
  - (a) Theories of Eruption. 3
  - (b) Principle fibres of periodontal ligament. 3
  - (c) Hypocertified structures of enamel. 3

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Section 'B'

1. Write in detail about the following:  $2 \times 8 = 16$
- (a) Explain geometric concepts of crown outline and state the importance of each. 8
  - (b) Morphologic and Histologic differences between deciduous and permanent dentition. 8

2. Write briefly on the following:  $(2 \times 5 = 10)$
- (a) Importance of Compensating Curvatures in Occlusion. 5
  - (b) Functions of Saliva. 5

3. Short notes on -  $3 \times 3 = 9$
- (a) Occlusal surface of permanent maxillary first molar. 3
  - (b) Tooth Numbering Systems. 3
  - (c) Condylar head and articular disc.
  - (d) ~~Perrin's~~ <sup>0</sup> ~~ax~~ ~~ax~~
  - (e) Mesial drift.

(d) Stippling

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Roll No.....

BDS-II Prof.

5140

B.D.S. Examination, May- 2007  
HUMAN ORAL & DENTAL ANATOMY,  
PHYSIOLOGY AND HISTOLOGY

Paper-III  
(BDS-06)

*Time : Three Hours ]*

*[ Maximum Marks : 50*

- Note : 1. Attempt all questions.  
2. Use separate copy for part I & part II

PART-I

- Q.1 Describe in detail the life cycle of AMELOBLAST.  
Add a note on AMELOGENESIS. 8
- Q.2 Classify oral Mucosa. Describe in detail the  
histology of GINGIVA. 8

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Q.3 Write short notes On :-

3x3=9

- (a) Bell stage of tooth development.
- (b) Denticles.
- (c) Cellular and Acellular Cementum.

**PART-II**

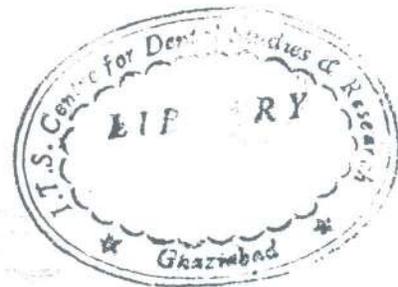
Q.4 Describe in detail the morphology of permanent maxillary Right central Incisor? 8

Q.5 Compare and contrast the anatomy of Permanent Maxillary and mandibular first molar? 8

Q.6 Write notes on. 3x3=9

- (a) functions of saliva
- (b) Spillways
- (c) Nomenclature.

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