FIRST YEAR B.D.S. DEGREE EXAM  
(Common to Second Year Paper I - Modified Regulation III Candidates)

PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Q.P Code: 544203

Time: 180 Minutes                                      Maximum: 70 Marks

Answer all questions in the same order
Draw suitable diagrams wherever necessary

I. Elaborate on:  
(2 x 10 = 20)

1. Write in detail about the development, function and histology of Periodontal ligament.
2. Discuss the various aspects of tooth number 11.

II. Write Notes on:  
(10 x 5 = 50)

1. Development of Tongue.
2. Incremental lines of Retzius.
3. Theories of dentin hypersensitivity.
4. Functions of Pulp.
6. Tooth numbering systems.
7. Occlusal aspect of Right Permanent Maxillary first molar.
8. Masticatory mucosa.
9. Theories of eruption.
10. Fixatives.

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FEBRUARY 2017
Sub. Code: 4203

FIRST YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper I - Modified Regulation III Candidates)

PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND
ORAL HISTOLOGY

Q.P Code: 544203

Time: 180 Minutes                                     Maximum: 70 Marks

Answer all questions in the same order
Draw suitable diagrams wherever necessary

I. Elaborate on:             (2 x 10 = 20)

1. Explain Amelogenesis and life cycle of Ameloblast with suitable diagrams.

2. Describe the morphology of right permanent mandibular second premolar.

II. Write Notes on:         (10 x 5 = 50)

1. Occlusal surface of Maxillary First Permanent molar.
2. Histology of Gingiva.
3. Cellular Cementum.
4. Functions of Pulp.
5. Osteoclast.
6. Principal fibres of Periodontal ligament.
8. Functions of Saliva.
9. Ground section of Tooth.
10. Theories of Tooth eruption.
I. Elaborate on:  

1. Write an essay on functions, development, histology of Pulp.
2. Describe in detail about right maxillary first molar.

II. Write Notes on:  

1. Sharpe’s fibers.
2. Development of tongue.
4. Types of cementum.
5. Age changes of dentin.
7. Serous cells.
8. Tome’s process.
10. Histology of Tempromandibular joint.
FIRST YEAR B.D.S. DEGREE EXAM  
(Rejected to Second Year Paper I - Modified Regulation III Candidates) 

PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND  
ORNAL HISTOLOGY  

Q.P Code: 544203 

Time: 180 Minutes                                     Maximum: 70 Marks 

Answer all questions in the same order 
Draw suitable diagrams wherever necessary 

I. Elaborate on:  

(2 x 10 = 20) 

1. Enumerate the stages in life cycle of ameloblast and write in 
detail about amelogenisis. 

2. Describe in detail about Maxillary central incisors. 

II. Write Notes on:  

(10 x 5 = 50) 

1. Principle fibres of periodontal ligament. 
2. Functions of cementum. 
3. Enamel Lamellae. 
4. Cap stage. 
5. Histology of pulp. 
7. Osteoclasts. 
8. Cusp of carabelli and Oblique ridge. 
10. Define the following  
   • Groove 
   • Cusp 
   • Cingulum 
   • Fossa 
   • Pit 

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FIRST YEAR B.D.S. DEGREE EXAM  
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PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND  
ORAL HISTOLOGY  

Q.P Code: 544203  

Time: 180 Minutes                                      Maximum: 70 Marks  

Answer all questions in the same order  
Draw suitable diagrams wherever necessary  

I. Elaborate on:  

(2 x 10 = 20)  

1. Classify oral mucous membrane. Describe in detail about masticatory  
mucosa.  

2. Describe in detail the morphology of Mandibular Permanent First Molar.  

II. Write Notes on:  

(10 x 5 = 50)  

1. Histology of Taste bud.  
2. Ligaments of TMJ.  
5. Interglobular Dentin.  
8. Mineralisation.  
10. Key of Occlusion and curve of Spee.
FIRST YEAR B.D.S. DEGREE EXAM
(First to Second Year Paper I - Modified Regulation III Candidates)

PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND
ORAL HISTOLOGY

**Q.P Code: 544203**

Time: 180 Minutes
Maximum: 70 Marks

**Answer all questions in the same order**

**Draw suitable diagrams wherever necessary**

I. **Elaborate on:**

\[2 \times 10 = 20\]


2. Write about the development of face with diagrams and add a note on developmental defects of palate.

II. **Write Notes on:**

\[10 \times 5 = 50\]

1. Epithelial rests of Malassez.
2. Fixatives.
3. Difference between Permanent and Deciduous dentition.
4. Primary, Secondary and Tertiary dentin.
5. Haematoxylin and Eosin staining.
6. Demilunes.
7. Types of Papillae.
8. Neural crest cells.
10. Embrasures
FIRST YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper I - Modified Regulation III Candidates)
PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND
ORAL HISTOLOGY

Q.P Code: 544203

Time: 180 Minutes                                     Maximum: 70 Marks

Answer all questions in the same order
Draw suitable diagrams wherever necessary

I. Elaborate on:                                      (2 x 10 = 20)

1. Describe in detail about types of Dentin with Histology. Add note on age changes in Dentin.

2. Discuss in detail the chronology and morphology of Permanent right Maxillary first premolar.

II. Write Notes on:                                  (10 x 5 = 50)

1. Role of neural crest in orofacial development.
2. Incremental lines of Enamel, Dentine and Cementum.
4. Functions of pulp.
5. Nerve supply of Tongue.
6. Dead tracts.
7. Difference between cellular and acellular cementum.
10. Decalcification.

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I. Elaborate on: \( (2 \times 10 = 20) \)

1. Define periodontium. Write in detail about the structure and functions of periodontal ligament.

2. Discuss in detail about the chronology and morphology of Permanent right Mandibular second premolar.

II. Write Notes on: \( (10 \times 5 = 50) \)

1. Histology of Maxillary sinus.
3. Compensating curves.
4. Deglutition.
5. Alveolar bone proper.
6. Odontoblasts.
7. Cemento-enamel junction.
8. Macroscopic features of gingiva.
10. Histophysiologic stages in tooth development.