[LJ 655] AUGUST 2016 **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. 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.
5. Cemento-Enamel Junction.
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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[LK 655] 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.
7. Development of Palate.
8. Functions of Saliva.
9. Ground section of Tooth.
10. Theories of Tooth eruption.

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[LL 655] AUGUST 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. Write an essay on functions, development, histology of Pulp.
2. Describe in detail about right maxillary first molar.

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

1. Sharpe's fibers.
2. Development of tongue.
3. Non-keratinocytes.
4. Types of cementum.
5. Age changes of dentin.
6. Cementoenamel junction.
7. Serous cells.
8. Tome's process.
9. Curve of Spee and Curve of monsoon.
10. Histology of Tempromandibular joint.

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[LM 655] FEBRUARY 2018 **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. 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.
6. Serous acini.
7. Osteoclasts.
8. Cusp of carabelli and Oblique ridge.
9. Occlusal morphology of mandibular 2^{nd} premolar.
10. Define the following
    - Groove
    - Cusp
    - Cingulum
    - Fossa
    - Pit

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[LN 655] AUGUST 2018 **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. 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.
3. Periodontal Ligament Fibres.
4. Antrum of Highmore.
5. Interglobular Dentin.
6. Myoepithelial cells.
7. Cell Rests of Serre.
8. Mineralisation.
9. Development of Tongue.
10. Key of Occlusion and curve of Spee.

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[LO 655] **FEBRUARY 2019** **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. Classify salivary glands. Discuss in detail Parotid gland with suitable diagrams.

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

II. Write Notes on: **(10 x 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.
9. Active and Passive eruption of teeth.
10. Embrasures

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[LP 655] AUGUST 2019 **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. 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.
3. Keratinization.
4. Functions of pulp.
5. Nerve supply of Tongue.
6. Dead tracts.
7. Difference between cellular and acellular cementum.
8. Gingival ligament.
9. Taste Pathway.
10. Decalcification.

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[LQ 655] FEBRUARY 2020 **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. 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 x 5 = 50)**

1. Histology of Maxillary sinus.
2. Mechanism of shedding.
3. Compensating curves.
4. Deglutition.
5. Alveolar bone proper.
6. Odontoblasts.
7. Cementoenamel junction.
8. Macroscopic features of gingiva.
9. Surface structures in enamel.
10. Histophysiological stages in tooth development.

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[BDS 0321] MARCH 2021 **Sub. Code: 4203**

(AUGUST 2020 SESSION)

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. Classify Salivary Glands. Discuss in detail the Histology of Serous and Mucous Acini. Add a note on Salivary Gland Ductal System.

2. Discuss in detail about the Chronology and Morphology of Permanent Right Manibular Second Premolar.

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

1. Histology of Maxillary Sinus.
2. Mechanism of Shedding.
3. Compensating Curves.
4. Deglutition.
5. Alveolar Bone Proper.
6. Odontoblasts.
7. Cementoenamel Junction.
8. Macroscopic Features of Gingiva.
9. Surface Structures in Enamel.
10. Histophysiological Stages in Tooth Development.

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[BDS 0921] SEPTEMBER 2021 **Sub. Code: 4203**

(FEBRUARY 2021 SESSION)

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. Classify Oral Mucous Membrane. Write in detail about Specialized Mucosa.

2. Describe the Chronology and Morphology of Permanent Right Maxillary Canine.

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

1. Development of Palate.
2. Advanced Bell Stage.
3. Hypomineralized Structures in Enamel.
4. Developmental Grooves
5. Oclusal Morphology of Permanent Maxillary First Molar.
6. Dentinal Hypersensitivity Theories.
7. Odontoclasts in Tooth Shedding.
8. Keratinization.
9. Cells of Periodontal Ligament.
10. Fixation.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0322] MARCH 2022 Sub. Code: 4203
(AUGUST 2021 SESSION)

FIRST YEAR B.D.S. DEGREE EXAM
New Modified Revised Regulation (August 2016 Examination Session onwards)
[Common to Modified Regulation III {Candidates admitted from 2003-2004 to 2007-2008} and New Modified Regulation {Candidates admitted from 2008 – 2009 onwards}]

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 mucosa. Write in detail about masticatory mucosa.
2. Describe the morphology of permanent maxillary canine.

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

1. Bundle bone.
2. Early bell stage of tooth development.
3. Define a) Ridge b) Fossa.
4. Ectomesenchyme.
5. Theories of dentinal sensitivity.
6. Fibres of periodontal ligament.
7. Zones of pulp.
8. Oclusal aspect of maxillary first molar.
9. Formative phase of Ameloblast.
10. Odontoclasts.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0722] JULY 2022 Sub. Code: 4203
(FEBRUARY 2022 SESSION)

FIRST YEAR B.D.S. DEGREE EXAM
New Modified Revised Regulation (August 2016 Examination Session onwards)
[Common to Modified Regulation III {Candidates admitted from 2003-2004 to 2007-2008} and New Modified Regulation {Candidates admitted from 2008 – 2009 onwards}]

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 Salivary Glands. Discuss in detail Parotid Gland with suitable diagrams.

2. Write about the development of Face with diagrams and add a note on Developmental Defects of Palate.

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

1. Cap Stage in Tooth Development.
2. Composition and Functions of Saliva.
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.
9. Active and Passive Eruption of Teeth.
10. Tempro Mandibular Joint.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 1222] DECEMBER 2022 Sub. Code: 4203
(AUGUST 2022 EXAM SESSION)

FIRST YEAR B.D.S. DEGREE EXAM

New Modified Revised Regulation (August 2016 Examination Session onwards)
[Common to Modified Regulation III {Candidates admitted from 2003-2004 to 2007-2008} and New Modified Regulation {Candidates admitted from 2008 – 2009 onwards}]

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. Maxillary canine.
2. Classify oral mucous membrane. Write in detail about histology of gingival.

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

1. Enamel Lamellae, tufts.
2. Primary and secondary curvatures of dentinal tubules.
3. Difference between Mandibular First and Second Premolar.
4. Cellular cementum.
5. Cap stage.
6. Fibres of Periodontal Ligament.
7. Define a) Fossa b) Cingulum.
8. Zones of pulp.
9. Taste buds.
10. Bundle bone.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0323] MARCH 2023 Sub. Code: 4203
(SEPTEMBER 2022 EXAM SESSION)

FIRST YEAR B.D.S. DEGREE EXAMINATION
New Modified Revised Regulation (August 2016 Examination Session onwards)
[Common to Modified Regulation III {Candidates admitted from 2003-2004 to 2007-2008} and New Modified Regulation {Candidates admitted from 2008 – 2009 onwards}]

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 the advanced bell stage of Tooth development and Root Formation.
2. Classify oral mucous membrane. Explain in detail the specialized epithelium.

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

1. Histology of mixed salivary acini.
2. Lamina Dura.
3. Functions of Periodontal ligament.
4. Cemento enamel junction and Dentino Enamel junction.
5. Physical and Chemical Properties of Enamel.
6. Tooth numbering systems.
7. Theories of Tooth eruption.
8. Osteoclast.
9. Differences between primary and permanent tooth.
10. Define: I. Line angle, II. Point Angle, III. Primate space, IV. Contact Point V. Ridge.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 1023] **OCTOBER 2023** **Sub. Code: 4203**
(AUGUST 2023 EXAM SESSION)

FIRST YEAR B.D.S. DEGREE EXAMINATION
New Modified Revised Regulation (August 2016 Examination Session onwards)
[Common to Modified Regulation III {Candidates admitted from 2003-2004 to 2007-2008} and New Modified Regulation {Candidates admitted from 2008 – 2009 onwards}]

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. Define Periodontium. Write in detail the histology of Periodontal Ligament.
2. Explain Amelogenesis with life cycle of Ameloblasts.

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

1. Mandibular first Permanent molar – Occlusal surface.
2. Cell remnants of Odontogenesis.
3. Histology of Keratinized Epithelium.
4. Cellular Cementum.
5. Functions of pulp.
6. Anatomical and clinical crown.
7. Dentin – Hypersensitivity Theories.
8. Ground Sections.
9. Development of Tongue.
10. Define**:** I. Fossa II. Cusp III. Ridge
    IV. Fissure V. Line angle.

*****

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 1223] **DECEMBER 2023** **Sub. Code: 4203**

FIRST YEAR B.D.S. DEGREE EXAMINATION

New Modified Revised Regulation (August 2016 Examination Session onwards)
[Common to Modified Regulation III {Candidates admitted from 2003-2004 to 2007-2008} and New Modified Regulation {Candidates admitted from 2008 – 2009 onwards}]

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. Discuss the various stages of development of tooth.
2. Classify Salivary glands. Write in detail about serous and mucous acini.

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

1. Types of dentin.
2. Cementocytes and Osteocytes.
3. Occlusal aspect of Mandibular second Premolar.
4. Cells of periodontal ligament.
5. Lamina dura.
6. Papilla of tongue.
7. Sequence of eruption of Permanent teeth.
8. Surface structures of enamel.
9. Incremental lines of teeth.
10. Age changes of pulp.

****

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0624] **JUNE 2024** **Sub. Code: 4203**

FIRST YEAR B.D.S. DEGREE EXAMINATION

New Modified Revised Regulation (August 2016 Examination Session onwards)

[Common to Modified Regulation III {Candidates admitted from 2003-2004 to 2007-2008} and New Modified Regulation {Candidates admitted from 2008 – 2009 onwards}]

PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Q.P Code*: *544203

Time: Three hours **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. Write in detail about Keratinized mucosa.
2. Write in detail about the morphology of permanent maxillary first molar.

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

1. Enamel tufts and lamellae.
2. Zones of pulp.
3. Tooth numbering systems.
4. Types of cementum.
5. Resorptive cell.
6. Principal fibers of periodontal ligament.
7. Development of palate.
8. Periodontal ligament traction theory.
9. Myoepithelial cell.
10. Cemento – enamel junction.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0824] **AUGUST 2024** **Sub. Code: 4203**

FIRST YEAR B.D.S. DEGREE EXAMINATION

New Modified Revised Regulation (August 2016 Examination Session onwards)

[Common to Modified Regulation III {Candidates admitted from 2003-2004 to 2007-2008} and New Modified Regulation {Candidates admitted from 2008 – 2009 onwards}]

PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Q.P Code*: *544203

Time: Three hours **Maximum: 70 Marks**

Answer all questions in the same order

Draw suitable diagrams wherever necessary

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

1. Discuss Dentinogenesis in detail. Add a note on various types of Dentin.
2. Describe in detail about the morphology of Permanent Maxillary canine.

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

1. Advanced bell stage.
2. Ground sections.
3. Functions of Periodontal ligament.
4. Ducts of Salivary gland.
5. Pulp stone.
6. Enamel Spindle and Gnarled enamel.
7. Hypercementosis.
8. Tooth exfoliation.
9. Types of Bone.
10. Papillae of Tongue.

****

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 1224] **DECEMBER 2024** **Sub. Code: 4203**

FIRST YEAR B.D.S. DEGREE EXAMINATION
New Modified Revised Regulation (August 2016 Examination Session onwards)

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 the advanced bell stage of Tooth development and Root formation.
2. Classify Oral mucous membrane. Explain in detail the specialized epithelium.

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

1. Histology of mixed salivary acini.
2. Lamina Dura.
3. Functions of Periodontal ligament.
4. Cemento enamel junction and Dentino Enamel junction.
5. Physical and Chemical Properties of enamel.
6. Tooth numbering systems.
7. Theories of Tooth eruption.
8. Osteoclast.
9. Differences between primary and permanent tooth.
10. Define: a) Line angle b) Point Angle c) Primate space d) Contact Point e) Ridge.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0225] **FEBRUARY 2025** **Sub. Code: 4203**

B.D.S. DEGREE EXAMINATION

New Modified Revised Regulation (August 2016 Examination Session onwards) and New Modified Regulation {Candidates admitted from 2008-2009 onwards)

FIRST YEAR

PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Q.P Code*: *544203

Time: Three hours **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. Write in detail on keratinized mucosa.
2. Write the differences between deciduous and permanent teeth. Write the eruption dates for all the permanent teeth.

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

1. Tooth germ.
2. Resorptive cells.
3. Vascular pressure theory.
4. Oxytalan fibers.
5. Alveolar bone proper.
6. Occlusal aspect of 26.
7. Composition of enamel.
8. Accessory salivary glands.
9. Key of occlusion.
10. Acellular cementum.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0625] **JUNE 2025** **Sub. Code: 4203**

B.D.S. DEGREE EXAMINATION
New Modified Revised Regulation (August 2016 Examination Session onwards)

FIRST YEAR
PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Q.P Code*: *544203

Time: Three hours **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 the Histology of Cementum. Add a note on the Physical and Chemical property of Cementum and its function.

2. Explain in detail the morphology of Maxillary Permanent First Molar.

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

1. Histology of pulp.
2. Gingiva.
3. Basket Cells.
4. Functions of Saliva.
5. Advanced bell stage of tooth development.
6. Organising stage of Ameloblasts.
7. Occlusal morphology of mandibular second premolar.
8. Taste buds.
9. Fibres of periodontal ligament.
10. Define a) Overjet b) Overbite c) Centric relation d) Centric Occlusion e) Freeway space.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[BDS 0825] **AUGUST 2025** **Sub. Code: 4203**

B.D.S. DEGREE EXAMINATION

New Modified Revised Regulation (August 2016 Examination Session onwards) and New Modified Regulation {Candidates admitted from 2008-2009 onwards})

FIRST YEAR

PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Q.P Code*: *544203

Time: Three hours **Maximum: 70 Marks**

Answer all questions in the same order

Draw suitable diagrams wherever necessary

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

1. Describe the morphology of Permanent maxillary first molar.

2. Define and classify Oral mucosa. Describe the macroscopic and microscopic structure of Gingiva.

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

1. Development of Tongue.
2. Hypomineralized areas in enamel.
3. Functions of Saliva.
4. Hertwig's epithelial root sheath.
5. Bone Remodelling.
6. Age changes of Pulp.
7. Difference between Acellular and Cellular cementum.
8. Hunter Schreger bands.
9. Curve of Spee, curve of Monson and curve of Wilson.
10. Theories of Dentin hypersensitivity.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[BDS 1225] **DECEMBER 2025** **Sub. Code: 4203**

B.D.S. DEGREE EXAMINATION
New Modified Revised Regulation (August 2016 Examination Session onwards)
Candidates admitted for the Academic Year 2022-2023 Batch only

FIRST YEAR
PAPER III – DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Q.P Code*: *544203

Time: Three hours **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 the types of Tooth Notation System with merits and demerit.
2. Write in detail the composition and functions of Saliva.

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

1. Dental lamina and its fate.
2. Significance of Pre-eruptive tooth movement.
3. Gomphosis.
4. Ductal system of Salivary gland.
5. Odontoblastic zone.
6. Molar trait.
7. Compare the physical and chemical properties enamel and dentin.
8. Age changes in dentin.
9. Ligaments of Temporomandibular joint.
10. Dento-gingival junction.

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