

[MDS 0721]

JULY 2021
(MAY 2021 SESSION)

Sub. Code: 2507

M.D.S DEGREE EXAMINATION
(For the Candidates admitted from the Academic Year 2018-2019 onwards)

PART – II

BRANCH II – PERIODONTOLOGY

**PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES, EPIDEMIOLOGY AS
RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Maximum: 100 Marks

I. Essay: (2 x 25 = 50)

1. Define Plaque. Explain the formation, maturation and properties of Dental Plaque. Discuss the role of Dental Plaque in the etiopathogenesis of Chronic Periodontitis.
2. Discuss the oral and periodontal manifestations of AIDS.

II. Short Essays: (5 x 10 = 50)

1. Classification and pathogenesis of Periodontal Pocket.
2. Dental Calculus.
3. Classification of Cementum.
4. Role of Poly Morphonuclear Leukocytes in Aggressive Periodontitis.
5. Role of genetics in Periodontics.

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

[MDS 1121]

**NOVEMBER 2021
(OCTOBER 2021 SESSION)**

Sub. Code: 2507

**M.D.S DEGREE EXAMINATION
(For the Candidates admitted from the Academic Year 2018-2019 onwards)**

PART – II

BRANCH II – PERIODONTOLOGY

**PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES, EPIDEMIOLOGY AS
RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: **(2 x 25 = 50)**

1. Trauma from Occlusion? Pathogenesis, and progression of Periodontal disease.
2. Classify Aggressive Periodontitis. Explain the Etiology, Pathogenesis and Microbial profile of Localized Aggressive Periodontitis.

II. Short Essays: **(5 x 10 = 50)**

1. Primary and Secondary Trauma from Occlusion.
2. Specific, Non-specific and Ecological Plaque hypotheses.
3. Matrix Metalloproteinases.
4. Periodontal Disease Activity.
5. Periodontal changes in Pregnancy and Puberty.

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

[MDS 0622]

**JUNE 2022
(MAY 2022 SESSION)**

Sub. Code: 2507

**M.D.S DEGREE EXAMINATION
(For the Candidates admitted from the Academic Year 2018-2019 onwards)**

**FINAL YEAR
PART – II**

BRANCH II – PERIODONTOLOGY

**PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES, EPIDEMIOLOGY AS
RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: (2 x 25 = 50)

1. Diabetes Mellitus – A risk factor for periodontitis in adults – Discuss.
2. Discuss the etiopathogenesis of tooth mobility and pathologic migration in periodontal disease.

II. Short Essays: (5 x 10 = 50)

1. Drug induced gingival hyperplasia.
2. Histopathology of periodontal pocket .
3. Influence of prosthetic restorations on the periodontium.
4. Iatrogenic factors in Periodontitis.
5. Halitosis.

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

[MDS 1022]

OCTOBER 2022

Sub. Code: 2507

M.D.S. DEGREE EXAMINATION

(For the Candidates admitted from the Academic Year 2018-2019 onwards)

FINAL YEAR

PART – II

BRANCH II – PERIODONTOLOGY

**PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES,
EPIDEMIOLOGY AS RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Discuss the role of gram negative bacteria in the etiology of periodontal disease in detail.
2. Discuss the role of cytokines and growth factors in periodontal health and disease.

II. Short Essays:

(5 x 10 = 50)

1. Attachment of dental calculus to the tooth.
2. Mechanism of periodontal destruction by microorganisms.
3. The effect of tobacco smoking on the periodontium.
4. Factors regulating bone formation.
5. Pregnancy Gingivitis.

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

[MDS 0723]

**JULY 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2507

**M.D.S. DEGREE EXAMINATION
(For the Candidates admitted from the Academic Year 2018-2019 onwards)**

**FINAL YEAR
PART – II
BRANCH II – PERIODONTOLOGY
PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES,
EPIDEMIOLOGY AS RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: **(2 x 25 = 50)**

1. Discuss in detail about the influence of Systemic diseases on the Periodontium.
2. Explain in detail about the Immunologic aspects of Host –Microbial interactions.

II. Short Essays: **(5 x 10 = 50)**

1. Microbial profile of Periodontal Abscess.
2. Pattern recognition receptors in Periodontal Disease pathogenesis.
3. Classification of Periodontal pocket.
4. Etiopathology of Tooth mobility.
5. Virulence factors of Porphyromonas gingivalis.

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

[MDS 1023]

OCTOBER 2023

Sub. Code: 2507

M.D.S. DEGREE EXAMINATION

(For the Candidates admitted from the Academic Year 2018-2019 onwards)

FINAL YEAR

PART – II

BRANCH II – PERIODONTOLOGY

**PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES,
EPIDEMIOLOGY AS RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Define and classify Periodontal Pocket. Write in detail about its content and histopathology of Periodontal Pocket.
2. Classify Gingival Enlargement. Discuss in detail about Drug induced Gingival Enlargement with emphasis on current concepts involved in drug induced Gingival Enlargement.

II. Short Essays:

(5 x 10 = 50)

1. Linear Gingival Erythema.
2. Theories of Mineralization of Calculus.
3. Concept of Stress in etiopathogenesis of Periodontal Disease.
4. Biological width.
5. Interleukin-1 and its role in progression of Periodontitis.

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

[MDS 0524]

MAY 2024

Sub. Code: 2507

M.D.S. DEGREE EXAMINATION

(For the Candidates admitted from the Academic Year 2018-2019 onwards)

FINAL YEAR

PART – II

BRANCH II – PERIODONTOLOGY

**PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES,
EPIDEMIOLOGY AS RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Critically evaluate the role of Genetic Polymorphisms in etiology and progression of Periodontal disease.
2. Discuss the formation, development and significance of Junctional Epithelium in Periodontal Health and Disease.

II. Short Essays:

(5 x 10 = 50)

1. Ortho-Perio Inter relationship.
2. Role of Gram-negative bacteria in etiology of Periodontal Disease.
3. Etiology and pathogenesis of Gingival Bleeding.
4. Primary Trauma from Occlusion.
5. Atypical Gingivitis.

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

[MDS 1024]

OCTOBER 2024

Sub. Code: 2507

M.D.S. DEGREE EXAMINATION

(For the Candidates admitted from the Academic Year 2018-2019 onwards)

FINAL YEAR

PART – II

BRANCH II – PERIODONTOLOGY

**PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES,
EPIDEMIOLOGY AS RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Define and classify Periodontal Pocket. Write in detail about its content and histopathology of periodontal Pocket.
2. Discuss the role of gram(-ve) negative bacteria in the etiology of periodontal disease in detail.

II. Short Essays:

(5 x 10 = 50)

1. Stages of Gingival enlargement.
2. Theories of Mineralization of Calculus.
3. Pyogenic granuloma.
4. Iatrogenic factors in periodontal disease.
5. Interleukin-1 and its role in progression of Periodontitis.

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

[MDS 0525]

MAY 2025

Sub. Code: 2507

**M.D.S. DEGREE EXAMINATION
(For the Candidates admitted from the Academic Year 2018-2019 onwards)**

**FINAL YEAR
PART – II
BRANCH II – PERIODONTOLOGY
PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES,
EPIDEMIOLOGY AS RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: (2 x 25 = 50)

1. Classify gingival enlargement. Discuss in detail about drug induced gingival enlargement and its current concepts.
2. Discuss the pathogenesis of bone loss and patterns of bone destruction in various periodontal diseases.

II. Short Essays: (5 x 10 = 50)

1. Periosteum and Endosteum.
2. Pathogenesis of Periodontal pocket.
3. Non-plaque associated gingivitis.
4. Models of Periodontal Disease Progression.
5. Localised aggressive Periodontitis.

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

[MDS 1225]

DECEMBER 2025

Sub. Code: 2507

**M.D.S. DEGREE EXAMINATION
(Candidates admitted for the Academic Year 2022-2023 only)**

FINAL YEAR

PART – II

BRANCH II – PERIODONTOLOGY

**PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES,
EPIDEMIOLOGY AS RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: (2 x 25 = 50)

1. Discuss the etiopathogenesis of Acute necrotizing ulcerative gingivitis.
2. Define risk factors and write in detail about the categories of risk elements in periodontal diseases.

II. Short Essays: (5 x 10 = 50)

1. Plasma cell Gingivitis.
2. Marsh hypothesis.
3. Actinobacillus actinomycetemcomitans.
4. Role of Proinflammatory Cytokines in Periodontal disease.
5. Parafunctional habits.

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

[MDS 0526]

MAY 2026

Sub. Code: 2507

M.D.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2018-2019 onwards)

FINAL YEAR

PART – II

BRANCH II – PERIODONTOLOGY

**PAPER I – NORMAL PERIODONTAL STRUCTURE, ETIOLOGY &
PATHOGENESIS OF PERIODONTAL DISEASES,
EPIDEMIOLOGY AS RELATED TO PERIODONTICS**

Q.P. Code: 242507

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: (2 x 25 = 50)

1. Discuss the histopathology and pathogenesis of bone loss and patterns of bone destruction in various periodontal diseases.
2. Discuss the role of microorganisms in the etiology and progression of periodontal disease.

II. Short Essays: (5 x 10 = 50)

1. Specific plaque hypothesis.
2. Microbial profile of Acute Necrotizing Ulcerative Gingivitis.
3. Lymphokines.
4. Pericoronitis.
5. Plasma cell gingivitis.
