

FOURTH YEAR B.D.S. DEGREE EXAM
(Common to Final Year Paper V - Modified Regulations III and
Final Year Paper IV - New Modified Regulation Candidates)

PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Define gingiva. Compare and contrast the clinical and Histological features of normal gingiva with the clinical and histopathological features of chronic gingivitis.
2. Define gingivectomy. Describe in detail its indications and surgical procedure.

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

1. Bundle bone.
2. Curettes.
3. Hypercementosis.
4. Pericoronitis.
5. Biological width.
6. GCF.
7. Bone Lipping.
8. Periimplantitis.
9. Etiology of Oral malodour.
10. Specific Plaque hypothesis.

FOURTH YEAR B.D.S. DEGREE EXAM
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PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Define Prognosis. Discuss in detail the role of determining prognosis in the management of periodontal disease.
2. Discuss the etiology, histopathology, clinical features and treatment of Aggressive Periodontitis.

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

1. Tooth mobility.
2. ENAP.
3. Functions of saliva.
4. Tetracycline.
5. Attached gingiva.
6. Periochip.
7. Trans-endothelial migration.
8. Stages of gingival inflammation.
9. CEJ.
10. Cytokines.

FOURTH YEAR B.D.S. DEGREE EXAM
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Time: 180 Minutes

Maximum: 70 Marks

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

1. Classify periodontal diseases and conditions.
2. Define plaque. Write about the classification, composition and formation of plaque.

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

1. Role of stress in periodontitis.
2. Interdental Brushes.
3. Osseous Crater.
4. Functions of periodontal ligament.
5. Risk indicators.
6. Clinical features of Chronic Periodontitis.
7. Peri implantitis.
8. Drug induced gingival enlargement.
9. Suture material.
10. Hypercementosis.

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PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Define gingival recession. Classify it and write in detail about lateral repositioning flap surgery.
2. Define Periodontal Medicine. Discuss effects of periodontal diseases on systemic health.

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

1. Contents of periodontal pocket.
2. Osseointegration.
3. Pathologic tooth migration.
4. Tetracycline in periodontal therapy.
5. Gingivectomy.
6. Risk assessment.
7. Differentiate cellular and a cellular cementum.
8. Osteoplasty and ostectomy.
9. Periodontal pack.
10. Polishing instruments.

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PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Define and classify periodontal flaps. Discuss the modified widman flap in detail.
2. Describe the clinical and microscopic features of Gingiva.

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

1. Stages in gingivitis.
2. Halitosis.
3. Tooth mobility.
4. Periodontal abscess.
5. Diabetes and periodontal health.
6. Periotemp.
7. Biological width.
8. Define new attachment and repair.
9. Alloplasts.
10. Supportive periodontal therapy and its importance.

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PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Define prognosis? Discuss the factors which influence the individual prognosis of a tooth?
2. Clinical features and management of ANUG.

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

1. Junctional epithelium.
2. Classification of gingival fibers.
3. Chlorhexidine.
4. Etiology of gingival recession.
5. Trauma from occlusion.
6. Ultrasonics.
7. Host modulation agents.
8. Hemisection.
9. Root surface biomodification.
10. Lasers in periodontal therapy.

FOURTH YEAR B.D.S. DEGREE EXAM
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PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Define Dental Calculus. Enumerate theories of mineralization and attachment Dental Calculus.
2. Define furcation involvement. Discuss its classification and management.

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

1. Polishing instruments.
2. Principal fibers of periodontal ligament.
3. Local Drug delivery.
4. Lamina dura.
5. Methods of collection of GCF.
6. Plaque hypotheses.
7. Pericoronitis.
8. Gingival bleeding.
9. Idiopathic gingival enlargement.
10. Root surface changes in periodontal pocket.

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PAPER IV – PERIODONTOLOGY

Q.P. Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Classification, diagnosis and treatment of endodontic- periodontic lesions.
2. Write about relation between periodontal diseases and preterm low weight babies.

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

1. Gingival fibers.
2. Patterns of bone destruction.
3. Fremitus test.
4. LANAP.
5. Osseous craters.
6. Differences between suprabony and infrabony pockets.
7. Merin's classification.
8. Influence of Diabetes Mellitus on the Periodontium.
9. Gracey Curettes.
10. Write about "Periostat".

[LR 673]

NOVEMBER 2020 Sub. Code: 4219
(AUGUST 2020 SESSION)

FOURTH YEAR B.D.S. DEGREE EXAM
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Final Year Paper IV - New Modified Regulation Candidates)

PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. What are the guidelines for managing Diabetic Patients in the Dental Office?
2. Clinical features and management of ANUG.

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

1. Tetracyclines in Periodontal therapy.
2. Principal fibers of Periodontal ligament.
3. Periodontal pack.
4. Osseointegration.
5. Methods of collection GCF.
6. Plaque Hypothesis.
7. Modes of attachment of calculus to Tooth Surface.
8. Gingival bleeding.
9. Idiopathic Gingival Enlargement.
10. Root surface changes in Periodontal pocket.

[BDS 0921]

**SEPTEMBER 2021
(FEBRUARY 2021 SESSION)**

Sub. Code: 4219

FOURTH YEAR B.D.S. DEGREE EXAM

**(Common to Final Year Paper V - Modified Regulations III and
Final Year Paper IV - New Modified Regulation Candidates)**

PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Define Periodontitis. Classify various forms of Periodontitis. Discuss the Etiology, Clinical features and Radiograph features of Aggressive Periodontitis.
2. Define and classify Flap Surgery. Discuss Periodontal Healing following Flap Surgery.

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

1. Bicuspidization and Hemisection.
2. Osseous Intergration.
3. Defence Mechanism of Gingiva.
4. Inflammatory Gingival Enlargement.
5. GTR.
6. Virulence factors of Periodontal Pathogens.
7. DNA Probe.
8. Local Drug delivery systems.
9. Classification of Bone Grafts.
10. Frenal Attachment.

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

[BDS 1221]

**DECEMBER 2021
(AUGUST 2021 SESSION)**

Sub. Code: 4219

FOURTH YEAR B.D.S. DEGREE EXAM

**(Common to Final Year Paper V - Modified Regulations III and
Final Year Paper IV - New Modified Regulation Candidates)**

PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Clinical Features, Diagnosis and Treatment of Periodontal Abscesses?
2. What are Gingivectomy and Gingivoplasty? Write about Surgical Gingivectomy.

II. Write Notes on:

(10 x 5 = 50)

1. Junctional Epithelium.
2. Functions of the Periodontal Ligament.
3. Classify Cementum
4. Risk Assessment.
5. Functions of GCF.
6. Polishing Instruments.
7. Composition of Dental Calculus.
8. Advantages and Disadvantages of Laser Therapy.
9. What are principles of Periodontal Splinting?
10. Write about “Periostat”.

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

[BDS 0522]

**MAY 2022
(FEBRUARY 2022 SESSION)**

Sub. Code: 4219

**B.D.S. DEGREE EXAM
(Common to Final Year Paper V Modified Regulations III and
Final Year Paper IV New Modified Regulation Candidates)**

FINAL YEAR

PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Define Dental Plaque. Classify and write in detail about Plaque Formation.
2. Define Aggressive Periodontitis. Discuss the Clinical and Radiographic Features and Risk Factors of Aggressive Periodontitis.

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

1. Attached Gingiva.
2. Transendothelial Migration.
3. Periochip.
4. Gracey Curettes.
5. Peri-Implantitis.
6. GTR
7. Diagnosis and Management of Halitosis.
8. Role of Stress in Periodontal Disease.
9. Osseous Craters.
10. Periodontal Microsurgery.

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

[BDS 1022]

**OCTOBER 2022
(AUGUST 2022 SESSION)**

Sub. Code: 4219

**B.D.S. DEGREE EXAMINATION
(Common to Final Year Paper V Modified Regulations III and
Final Year Paper IV New Modified Regulation Candidates)**

**FINAL YEAR
PAPER IV – PERIODONTOLOGY
Q.P Code: 544219**

Time: 180 Minutes

Maximum: 70 Marks

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

1. Describe the principal fibers and cellular elements of Periodontal Ligament. Discuss the functions of Periodontal Ligament.
2. Define Trauma from Occlusion. Discuss clinical and radiographic features of Trauma from Occlusion. Explain the tissue response to increased Occlusal forces.

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

1. Indications and contraindications for Gingivectomy procedure.
2. Root Biomodification.
3. Classification of Periodontal flap.
4. Pregnancy gingivitis.
5. Diabetes mellitus and periodontal disease.
6. Host modulating agents.
7. Treatment of Aggressive Periodontitis.
8. Endotoxins.
9. Gingival bleeding.
10. Periodontal manifestations of AIDS.

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

[BDS 0223]

FEBRUARY 2023

Sub. Code: 4219

**B.D.S. DEGREE EXAMINATION
(Common to Final Year Paper V Modified Regulations III and
Final Year Paper IV New Modified Regulation Candidates)**

**FINAL YEAR
PAPER IV – PERIODONTOLOGY
Q.P Code: 544219**

Time: 180 Minutes

Maximum: 70 Marks

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

1. Classify Gingival enlargement. Describe in detail about drug induced Gingival enlargement.
2. Define diagnosis. Describe the various Microbiologic aids used in Periodontal diagnosis. Add a note on limitations of Radiographs in Periodontal diagnosis.

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

1. Free Gingival autograft.
2. Indications of Coronoplasty.
3. Adverse effects of chlorhexidine mouthwash.
4. Periodontal abscess.
5. Neutrophil dysfunctions.
6. Peri-implant mucositis.
7. Classification of Furcation involvement.
8. Non – keratinocytes of Gingival epithelium.
9. Melcher's concept.
10. Define: Periodontal regeneration, new attachment, re-attachment and repair.

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

[BDS 0723]

JULY 2023

Sub. Code: 4219

B.D.S. DEGREE EXAMINATION
(Common to Final Year Paper V Modified Regulations III and
Final Year Paper IV New Modified Regulation Candidates)

FINAL YEAR
PAPER IV – PERIODONTOLOGY
Q.P Code: 544219

Time: 180 Minutes

Maximum: 70 Marks

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

1. Enumerate the Periodontal Osseous defects. Describe the steps in Resective Osseous Surgery.
2. Define Periodontal Ligament. Describe in detail the Physical functions of Periodontal Ligament.

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

1. Ecological Plaque hypothesis.
2. Etiologic significance of Calculus.
3. CEJ.
4. Stage III of Gingival Inflammation.
5. Interdental cleaning aids.
6. Pathologic Tooth migration.
7. Plaque Biofilm.
8. Composition of COE pack.
9. Disclosing agents.
10. Indications of Gingivectomy.

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

[BDS 1023]

**OCTOBER 2023
(AUGUST 2023 EXAM SESSION)**

Sub. Code: 4219

**B.D.S. DEGREE EXAMINATION
(Common to Final Year Paper V Modified Regulations III and
Final Year Paper IV New Modified Regulation Candidates)**

**FINAL YEAR
PAPER IV – PERIODONTOLOGY
Q.P Code: 544219**

Time: 180 Minutes

Maximum: 70 Marks

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

1. Define Prognosis. Discuss in detail the role of determining prognosis in the management of Periodontal disease.
2. Define and classify Periodontal flaps. Discuss Modified Widman Flap procedure in detail.

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

1. Classification of Periodontal pocket.
2. Area specific curettes.
3. Plasma Cell Gingivitis.
4. Etiology of malodor.
5. Parts of Gingiva.
6. Interleukins.
7. Local drug delivery.
8. Autogenous bone grafts.
9. LASERS in periodontal therapy.
10. Peri implantitis.

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

[BDS 0224]

FEBRUARY 2024

Sub. Code: 4219

B.D.S. DEGREE EXAMINATION
(Common to Final Year Paper V Modified Regulations III and
Final Year Paper IV New Modified Regulation Candidates)

FINAL YEAR
PAPER IV – PERIODONTOLOGY
Q.P Code: 544219

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 Bone grafts. Write in detail on Autogenous bone grafts.
2. Define Trauma from Occlusion. Elaborate on tissue response to increased occlusal forces.

II. Write Notes on:

(10 x 5 = 50)

1. Tooth mobility.
2. Modes of attachment of calculus to Tooth surface.
3. Coaggregation.
4. Chlorhexidine.
5. Functions of Saliva.
6. Plasma Cell Gingivitis.
7. Melcher's concept.
8. Differences between Periodontal abscess and Periapical abscess.
9. New Attachment and Reattachment.
10. Bass Technique of Tooth brushing.

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

[BDS 0824]

AUGUST 2024

Sub. Code: 4219

B.D.S. DEGREE EXAMINATION

FINAL YEAR

PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

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. Define Gingival recession. Classify it and write in detail about management of Class-II gingival recession.
2. Define and classify Dental Calculus. Enumerate theories of mineralization and attachment of Dental Calculus to tooth surface.

II. Write Notes on:

(10 x 5 = 50)

1. Classification and etiology of Tooth mobility.
2. Attached Gingiva and its significance.
3. Methods of collection of Gingival Cervicular Fluid.
4. Etiology of Gingival bleeding and its significance.
5. Classification of Periodontal pocket.
6. Periodontal bone defects.
7. Influence of Diabetes Mellitus on the Periodontium.
8. Principal Fibers of Periodontal ligament.
9. Guided tissue Regeneration.
10. Junctional epithelium.

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

[BDS 0225]

FEBRUARY 2025

Sub. Code: 4219

B.D.S. DEGREE EXAMINATION

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

FINAL YEAR

PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

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. Define Calculus. Write in detail about the composition and formation of Calculus.
2. Write in detail on the clinical features and treatment of Chronic Periodontitis.

II. Write Notes on:

(10 x 5 = 50)

1. Tooth mobility.
2. DNA Probe.
3. Biological width.
4. Primary trauma from Occlusion.
5. Differences between Suprabony and Infrabony pockets.
6. Hypercementosis.
7. Osseointegration.
8. Gingival fibers.
9. Drug induced Gingival Enlargement.
10. Universal Curette.

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

[BDS 0825]

AUGUST 2025

Sub. Code: 4219

B.D.S. DEGREE EXAMINATION

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

FINAL YEAR

PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

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 in detail the various bone destruction patterns in Periodontal disease.
2. Define and classify Periodontal flaps. Write in detail about the Modified Widman's flap.

II. Write Notes on:

(10 x 5 = 50)

1. Functions of Periodontal ligament.
2. Fenestration and Dehiscence.
3. Classification of Gingival enlargements.
4. Pathologic tooth migration.
5. Dental floss.
6. Composition of Dental calculus.
7. Autografts.
8. OHI-S (Oral Hygiene Index – Simplified).
9. Biologic width.
10. Osseointegration.

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

[BDS 0226]

FEBRUARY 2026

Sub. Code: 4219

B.D.S. DEGREE EXAMINATION

{New Modified Revised Regulation (August 2016 Examination Session onwards)}

And New Modified Regulation (Candidates admitted from 2008-2009 onwards)}

(For the candidates admitted during the academic year 2021-2022)

FINAL YEAR

PAPER IV – PERIODONTOLOGY

Q.P Code: 544219

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. Define Gingiva. Write in detail about the Junctional epithelium.
2. Define and classify Furcation involvement. Discuss the treatment modalities of Grade II furcation involvement.

II. Write Notes on:

(10 x 5 = 50)

1. Iatrogenic factors in periodontal diseases.
2. Functions of periodontal ligament.
3. Stages of Gingivitis.
4. Theories of Plaque formation.
5. Mechanical plaque control.
6. Area specific curettes.
7. Clinical features of Localized Aggressive Periodontitis.
8. Root bio-modification.
9. Peri-implantitis.
10. Phase I therapy.
