

**[LO 506]**

**MAY 2019**

**Sub. Code: 2506**

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

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Discuss general consideration of surgical anatomy in relation to periodontium.
2. Effect of age on periodontal tissues.
3. Anti coagulants.
4. Pro inflammatory cytokine.
5. Ascorbic acid.
6. Sterilization of periodontal instruments.
7. Bone remodeling.
8. Factors involved in delay in wound healing.
9. Non-steroidal anti inflammatory drugs.
10. Local drug delivery in periodontics.

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[LP 506]

**OCTOBER 2019**

**Sub. Code: 2506**

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

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Local Anesthetics.
2. Giant Cell.
3. Functions of Insulin.
4. Discuss the role of fat soluble vitamins in health and disease.
5. Pharmacological agents affecting bone resorption.
6. Bleeding disorders.
7. Functions of Periodontal ligament.
8. Discuss antigen – antibody reactions
9. Facultative anaerobes of Oral cavity.
10. Lactic acid dehydrogenase.

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[LQ 506]

**NOVEMBER 2020  
(MAY 2020 SESSION)**

Sub. Code: 2506

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

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Blood supply to the Periodontium.
2. Temporomandibular joint.
3. Prophylaxis and diagnosis of Hepatitis B virus.
4. Role of sex hormones in Periodontics.
5. Random Sampling.
6. Vitamin C and the Periodontium.
7. Write functions of Saliva.
8. Periodontal wound healing
9. Role of bisphosphonates in periodontics.
10. Analgesic in Dental Practice.

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[MDS 0321]

**MARCH 2021  
(OCTOBER 2020 SESSION)**

Sub. Code: 2506

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

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Write in detail about Bone Remodeling and its Role in Periodontal Therapy.
2. Discuss The Role of Fat Soluble Vitamins in Health and Disease.
3. Classify and Write about Pathophysiology of Shock.
4. Write about the Role of Amoxicillin in Periodontal Therapy.
5. Classify the Various Method of Sterilization and Write in detail about any one Method.
6. Write about Segregation Analysis.
7. Define Amyloidosis. Classify Amyloidosis and Explain about each Type.
8. Discuss Antigen – Antibody Reactions.
9. Write about the Significance of Complete Blood Count.
10. Discuss the Role of Adrenaline in Local Anesthesia.

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

**[MDS 0322]**

**MARCH 2022  
(MAY 2021 SESSION)**

**Sub. Code: 2506**

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

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Inferior Alveolar Nerve.
2. Blood Supply to Gingiva.
3. Composition and Functions of Blood.
4. Describe Pathway for Pain.
5. Herpes Virus Infection – Clinical Features and Treatment.
6. Pro Inflammatory Cytokine.
7. Vascular Changes in Acute Inflammation.
8. Define Shock And Discuss its Pathophysiology.
9. Local Anesthetics.
10. Explain Various Agents Used to Control Bleeding During Surgery.

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

**[MDS 0522]**

**MAY 2022  
(OCTOBER 2021 SESSION)**

**Sub. Code: 2506**

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

**FIRST YEAR**

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Blood & nerve supply of Muscles of Mastication.
2. Discuss the role of vitamin C in the Periodontal Health.
3. Write in detail about two pain pathways in Oral cavity.
4. Development of Gingival sulcus.
5. Write in details about Tetracycline in Periodontal therapy.
6. Write about the test of significance in Biostatistics.
7. Discuss the role of autoclaving in Sterilization.
8. Pathogenesis and clinical features of Periodontal Abscess.
9. Discuss the role of Cytokines in inflammation.
10. Write in detail about Glycosylated hemoglobin blood test.

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

**[MDS 0223]**

**FEBRUARY 2023  
(OCTOBER 2022 EXAM SESSION)**

**Sub. Code: 2506**

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

**FIRST YEAR**

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Write about two blood and nerve supply of the Gingiva.
2. Discuss the role of vitamin B complex in health and disease.
3. Classify and write in detail about Hemorrhage.
4. Discuss about Bruxism.
5. Role of Neutrophils in Periodontitis.
6. Define epidemiology and discuss the various types of epidemiology.
7. Discuss dry and wet heat sterilization.
8. Discuss Anaphylaxis.
9. Write in detail about Coagulation Factors and their role in the Clotting mechanism.
10. Discuss the role of Glucose Tolerance Test as a diagnostic aid.

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

**[MDS 0723]**

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

**Sub. Code: 2506**

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

**FIRST YEAR**

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Glycosylated Haemoglobin.
2. Immunoglobulin.
3. Functions of Saliva.
4. Antibiotic prophylaxis.
5. Periodontal wound healing.
6. Hemostatic agents.
7. Vitamin D and Parathormone.
8. Antioxidants.
9. Neutrophil defects.
10. Bundle bone.

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

**[MDS 1023]**

**OCTOBER 2023**

**Sub. Code: 2506**

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

**FIRST YEAR**

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Virulence Factors.
2. Glucose Tolerance Test.
3. Collagen lysis.
4. Amoxicillin and Potassium Clavulanate.
5. Bone density.
6. Age changes in Periodontal Tissues.
7. Clotting cascade.
8. Role of anti-inflammatory agents in Periodontics.
9. Blood supply, nerve supply and lymphatic drainage of Gingiva.
10. Composition and functions of saliva.

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

**[MDS 1223]**

**DECEMBER 2023**

**Sub. Code: 2506**

**M.D.S. DEGREE EXAMINATION**

**FIRST YEAR**

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Development of Gingival sulcus.
2. Collection of data and sampling methods.
3. Complement system in periodontal health and disease.
4. Vitamin B complex.
5. Gingival Cervicular Fluid.
6. Collagen.
7. Antibiotic prophylaxis.
8. Muscles of Mastication.
9. Local Drug delivery.
10. DNA probe.

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

**[MDS 0524]**

**MAY 2024**

**Sub. Code: 2506**

**M.D.S DEGREE EXAMINATION**

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

**FIRST YEAR**

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Significance of bacteremia.
2. Emergency drugs in periodontal practice.
3. Metronidazole.
4. TMJ anatomy and its pathologic disorders.
5. Saliva as defense mechanism.
6. Pathophysiology of shock.
7. Functions and features of gingival epithelium.
8. Role of Vitamins on periodontal health.
9. Vascular changes in chronic inflammation.
10. Types of collagen and its clinical implication.

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

**[MDS 1024]**

**OCTOBER 2024**

**Sub. Code: 2506**

**M.D.S DEGREE EXAMINATION**

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

**FIRST YEAR**

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Discuss the Blood Supply, Nerve Supply and Lymphatic Drainage of Periodontium.
2. Discuss the role of Psychosomatic stress in Periodontal disease.
3. Write in detail on Bacteriophages.
4. Discuss Anaphylaxis in detail.
5. Describe in brief about Metronidazole, Ornidazole and Tinidazole.
6. Discuss autoclave and its recent advances.
7. Discuss role of Neutrophils in acute inflammation.
8. Describe two functions and composition of Gingival Crevicular fluid.
9. Describe surgical anatomy of maxillary sinus.
10. Ulcerative lesions of the Oral cavity.

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

**[MDS 0525]**

**MAY 2025**

**Sub. Code: 2506**

**M.D.S DEGREE EXAMINATION**

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

**FIRST YEAR**

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Discuss the role of non-steroidal anti-inflammatory drugs in the management of periodontal disease.
2. Describe the brief anatomy of tongue. Add a note on taste sensation.
3. Classify the various method of sterilization and write in detail about any one method.
4. Hemostasis – discuss the technique and materials.
5. Type I hyper sensitivity reaction.
6. Write about Segregation Analysis.
7. Define Amyloidosis. Classify Amyloidosis and Explain about each Type.
8. Discuss the role of Hypothalamus.
9. Microbial tests in Periodontal diagnosis.
10. Measures of central tendency.

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

**[MDS 1025]**

**OCTOBER 2025**

**Sub. Code: 2506**

**M.D.S DEGREE EXAMINATION**

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

**FIRST YEAR**

**PART – I**

**BRANCH II – PERIODONTOLOGY**

**PAPER I – APPLIED BASIC SCIENCES**

***Q.P. Code: 242506***

**Time: 3 Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(10 x 10 = 100)**

1. Describe in detail about the wound healing and specify the periodontal wound healing.
2. Define hemorrhage and explain its various effects.
3. Describe thermoregulation in detail.
4. Discuss the role of Adrenaline in Local Anesthesia.
5. Role of Vitamin – D in Periodontal disease.
6. Discuss the role of antioxidant in Periodontal Health.
7. Discuss Cold sterilization.
8. Write about the Role of Amoxicillin in Periodontal Therapy.
9. Describe composition, functions and regulation of saliva.
10. Discuss Antigen – Antibody Reactions.

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