

[LO 516]

MAY 2019

Sub. Code: 2516

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

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Discuss augmentation methods of wound healing and Role of CGF (Concentrated growth factor) in Periapical surgery.
2. Adjuvants of local anesthetics in Endodontics.
3. Sampling methods in Biostatistics.
4. Lingual nerve –course, relation, supply and its applied anatomy.
5. Write in detail Histology of dentin and Significance of Dentinal fluid.
6. Need for conscious sedation in Endodontics.
7. Hemophilia and its role in Endodontics.
8. Write in detail Microbiology of dental caries.
9. What are Super dentin and its clinical significance?
10. Elucidate various Non carious lesions and its management.

[LP 516]

OCTOBER 2019

Sub. Code: 2516

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

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Pathway of Dental pain.
2. Role of digital radiographs in improving Endodontics.
3. Role of fluoride in prevention of Dental caries.
4. CoX 2 Inhibitors.
5. Significance of polymicrobial etiology of Dental caries.
6. Trigeminal neuralgia.
7. Regulation of Blood sugar level.
8. Development of Tongue.
9. Protective role of saliva.
10. Methods of testing biocompatibility of Dental materials.

[LQ 516]

**NOVEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 2516

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

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Uses of topical antibiotics.
2. Complications of local anaesthesia and its management.
3. Vascular supply of Maxille.
4. Etiology and prevention of Dental Carries.
5. Classification and clinical applications of Glass Ionomer Cements.
6. Antibiotic sensitivity test.
7. Growth and development of teeth.
8. Assessment of repair and wound healing in endodontics.
9. Elaborate on the technical considerations of Dental Amalgam.
10. Biofilms in endodontics.

[MDS 0321]

**MARCH 2021
(OCTOBER 2020 SESSION)**

Sub. Code: 2516

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

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Anatomy of Trigeminal Nerve.
2. Describe in detail the Pharmacology of Lignocaine.
3. Describe in detail the Properties, Form of Availability, Applications and uses of Calcium Hydroxide.
4. Describe in detail the Regressive Alterations in Teeth.
5. Local agents for Hemostasis.
6. Biological Considerations in use of Dental Materials.
7. Management of Anaphylactic Shock.
8. Materials used for Aesthetic Restorative Procedures.
9. Describe the Composition, Properties, Manipulation, Technical Considerations and uses of Direct Filling Gold.
10. Describe in detail the Physiology of Dental Pulp.

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

[MDS 0322]

**MARCH 2022
(MAY 2021 SESSION)**

Sub. Code: 2516

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

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Discuss various Non odontogenic pain in Head & neck region.
2. Caries risk assessment & its significance.
3. Write in detail various Study Design in Biostatistics.
4. What are the age changes in dentin & add a note on dentinal sclerosis.
5. Histopathology of Enamel hypoplasia.
6. Temporomandibular joint-anatomy, nerve supply, blood supply, parts & applied anatomy.
7. Quorum sensing in caries.
8. Pre cautions for immune compromised patients.
9. Spread of Infection with use of Lasers.
10. Role of Lactobacillus in dental caries.

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

[MDS 0522]

**MAY 2022
(OCTOBER 2021 SESSION)**

Sub. Code: 2516

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

FIRST YEAR

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on: (10 x 10 = 100)

1. Nerve supply of Mandibular Posteriors.
2. Define Inflammation? Write in detail the types and various Physiologic Mechanism which play a Role in Inflammation.
3. Describe in detail the various applications of Ceramic Materials in Conservative Dentistry.
4. Describe in detail various types of Dental Burs and their applications in Operative Dental Procedures.
5. Pre-surgical Fitness Evaluation for Endodontic Surgery.
6. Classify Casting Failures. Describe in detail the various types of Casting Failures and methods to avoid them.
7. What is Syncope? Describe in detail the Management of Syncope.
8. Materials used For Retrograde Restoration in Endodontics.
9. Classify Zinc-Oxide Eugenol Cements. Write in detail the Composition, form of availability, Manipulation, Properties and Applications of Zinc Oxide Eugenol Cement.
10. Choice of Anti-Inflammatory Analgesics in Endodontic Procedures.

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

[MDS 0223]

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

Sub. Code: 2516

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

FIRST YEAR

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Inferior alveolar nerve.
2. Endodontic biofilm.
3. Tests of Significance.
4. Role of saliva in dental caries.
5. Mercury toxicity.
6. Antibiotics in endodontics.
7. Syncope and its management.
8. Sterilization of endodontic instruments.
9. Wound healing after periapical surgery.
10. Articaine.

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

[MDS 0723]

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

Sub. Code: 2516

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

FIRST YEAR

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Composition, Function and Physiology of Saliva.
2. Clinical management of Endodontic patients with bleeding disorders.
3. Glucose Tolerance Test.
4. Intracanal Medicaments.
5. E.Faecalis.
6. Age changes of Pulp.
7. Functions of Platelets.
8. Pathologic Calcification.
9. Bio Ceramic materials.
10. Estrogenicity of Resin composites.

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

[MDS 1023]

OCTOBER 2023

Sub. Code: 2516

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Inferior Alveolar Nerve Block Techniques.
2. Muscles of Mastication.
3. Calcium Silicate cements.
4. Microbiology of Dental caries.
5. Candida albicans and its implications in Endodontic infections.
6. Anaemia.
7. Tests of Significance.
8. Submandibular Salivary Gland.
9. Wound healing in Endodontics.
10. Dental pulp and its response to various stimuli.

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

[MDS 1223]

DECEMBER 2023

Sub. Code: 2516

M.D.S DEGREE EXAMINATION

FIRST YEAR

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Tests of significance.
2. Pain Pathway.
3. Gutta percha.
4. Inferior alveolar nerve.
5. Sterilization of endodontic instrument.
6. Periapical cyst.
7. Antibiotics in endodontics.
8. Microbiology of dental caries.
9. Wound healing in endodontics.
10. Supplementary anaesthetic techniques.

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

[MDS 1024]

OCTOBER 2024

Sub. Code: 2516

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Role of Analgesics in Endodontics.
2. Composition and functions of Saliva.
3. Write on Hemostatics.
4. Define Repair. Describe the process of Repair of Surgical wounds.
5. Culture methods in Endodontics.
6. Write on Anaphylactic shock.
7. Trigeminal Neuralgia.
8. Sterilization of Dental instruments.
9. Streptococcus Mutans.
10. Age changes in enamel and dentin.

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

[MDS 0525]

MAY 2025

Sub. Code: 2516

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Development of Dental Pulp.
2. Write on Necrosis.
3. Zones of Dental caries.
4. Microbiology of primary root canal infection.
5. Periapical cysts.
6. Factor influencing wound healing.
7. Local anaesthetics in Endodontics.
8. Acquired immunity.
9. Write on Lymphocytes.
10. Antibiotic sensitivity test.

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

[MDS 1025]

OCTOBER 2025

Sub. Code: 2516

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Etiology and prevention of dental caries.
2. Techniques considerations of dental amalgam.
3. Endodontic microflora.
4. Growth of periapical cyst.
5. Discuss recent developments in dentin bonding agents.
6. Pulp dentin complex.
7. Discuss about the role of hormones on hard tissues of teeth and clinical significance.
8. PCR and latest techniques in identifying the oral flora.
9. Ideal properties and complications of Local anaesthesia.
10. Meta analysis.

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

[MDS 0526]

MAY 2026

Sub. Code: 2516

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH IV – CONSERVATIVE DENTISTRY AND ENDODONTICS

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242516

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Fluoride releasing materials in restorative dentistry.
2. Wound healing in endodontics.
3. Various tests used for microleakage.
4. Sampling methods in Biostatistics.
5. Nerve supply of Mandible.
6. Pre anesthetic medications.
7. Structure and functions of dentin-pulp complex.
8. NiTi Alloys in endodontics.
9. Inflammatory mediators in Pulpitis.
10. Anaerobic pathogens in apical periodontitis.
