

[LO 501]

MAY 2019

Sub. Code: 2501

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

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Discuss the Temporomandibular joint and its prosthodontic considerations.
2. Composition and functions of saliva.
3. Tarnish and corrosion.
4. Mechanism of blood clotting.
5. Bio-compatibility with reference to the use of dental materials.
6. Oral microbial flora.
7. Denture base resins.
8. Pain pathway of the pulp.
9. Zirconia ceramics.
10. Healing of fractured mandible.

[LP 501]

OCTOBER 2019

Sub. Code: 2501

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

PART – I

BRANCH I – PROSTHODONTICS AND CROWN AND BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Discuss the various mandibular movements and their regulations by muscles and Ligaments.
2. Oral mucosa.
3. Major salivary glands.
4. Write briefly about the different types of benign tumors of the jaws.
5. Noble metal alloys.
6. Phosphate bonded investments.
7. What is osteomyelitis? Mention the management of osteomyelitis of body of the mandible.
8. Biomaterials used for alveolar ridge augmentation.
9. Trigeminal nerve and its course.
10. Titanium alloy.

[LQ 501]

**NOVEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 2501

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

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Biomaterials used in Implant Prosthodontics.
2. Parametric tests applied in Research Methodology.
3. Pathology and Prevention of Hepatitis.
4. Casting Defects.
5. Toxicity evaluation of Dental Materials.
6. Anatomy and applied Anatomy of Maxilla.
7. Impression materials for Maxillofacial Prosthesis.
8. Sterilization and Disinfection in Prosthodontics
9. Factors associated with Bone Resorption.
10. Anatomy and applied anatomy of Muscles of Palate.

[MDS 0321]

**MARCH 2021
(OCTOBER 2020 SESSION)**

Sub. Code: 2501

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

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Brief note on Shock Management.
2. Anatomy and Applied Anatomy of Muscles of Facial Expression.
3. Anatomy and Applied Anatomy of Temporomandibular Joint.
4. Waxes used in Prosthetic Dentistry.
5. Oral Microbial Flora.
6. Factors associated with Bone Resorption.
7. Hospital Borne Infection and Management.
8. CAD CAM used in Prosthodontics.
9. Tissue conditioners used in Prosthodontics.
10. Physiology of Mastication and Deglutition.

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

[MDS 0322]

**MARCH 2022
(MAY 2021 SESSION)**

Sub. Code: 2501

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

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Stem Cells used in Prosthodontics.
2. Brief note on Titanium Alloys.
3. Metabolic action of Oxidants and Antioxidants.
4. Note on Geriatric Nutrition.
5. Applied Physiology of Blood Glucose Levels.
6. Future Prospects of Gene Therapy.
7. Brief note on Vitamin D and Parathormone.
8. Brief note on Zirconia used in Prosthodontics.
9. Defects of Mandible.
10. Probability Value in Medical Statistics.

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

[MDS 0522]

**MAY 2022
(OCTOBER 2021 SESSION)**

Sub. Code: 2501

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

FIRST YEAR

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Age changes in Maxilla.
2. Measurement of colour and devices used in clinic.
3. Aphthous ulcers.
4. Importance of Mandibular movements.
5. Tests done for biocompatibility.
6. Stages of wound healing.
7. Biostatistics.
8. New generation NSAIDs.
9. Biomaterials used for implants.
10. Essential fatty acids.

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

[MDS 0223]

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

Sub. Code: 2501

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

FIRST YEAR

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Classify carbohydrates and explain the metabolism.
2. Pain pathway from pulp.
3. How is blood pressure regulated?
4. Opportunistic infections.
5. Action of tongue muscles during impression making in complete denture.
6. Haemophilia.
7. Course of Trigeminal nerve.
8. Recent advances in cements used for luting.
9. Anova test.
10. Oral lesions due to vitamin deficiency.

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

[MDS 0723]

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

Sub. Code: 2501

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

FIRST YEAR

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Desensitizing agents used.
2. In research methodology explain the importance of statistical analysis.
3. Importance of Gluconeogenesis.
4. Denture induced Stomatitis.
5. Maxillary sinus.
6. Enumerate the scope and limitation of porcelain fused to metal restoration.
7. Psychological consideration for geriatric patient.
8. Evaluate various die materials.
9. Significance of high protein diet for completely edentulous patients.
10. Prosthodontic management of Myofascial Pain Dysfunction Syndrome.

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

[MDS 1223]

DECEMBER 2023

Sub. Code: 2501

M.D.S DEGREE EXAMINATION

FIRST YEAR

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Xerostomia and management.
2. Toxicity of local anesthetics.
3. Oral candidiasis.
4. NSAID.
5. Post and core materials.
6. Types of shock.
7. Residual ridge resorption.
8. Muscles of mastication.
9. Macroglossia.
10. Amino acids.

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

[MDS 0524]

MAY 2024

Sub. Code: 2501

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Oral manifestation of HIV.
2. Histology of Posterior palatal seal.
3. Risorius - Anatomy and its applied Anatomy.
4. TMJ arthrosis.
5. Composition and functions of Saliva.
6. Calcium metabolism.
7. Dentigerous cyst.
8. Haematinics.
9. Lithium disilicate.
10. Mechanism of Blood coagulation.

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

[MDS 1024]

OCTOBER 2024

Sub. Code: 2501

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Anatomy and Applied anatomy of tongue in complete denture wearers.
2. Disinfection and sterilization.
3. Casting failures in prosthodontics.
4. Vitamin C and tissue healing.
5. Microbial flora found in Ailed and failed Implants.
6. Factors affecting bone healing.
7. Importance of geriatric nutrition.
8. Randomized control trial.
9. Software Applied in digital prosthodontics.
10. Role of salivary glands in complete dentures.

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

[MDS 0525]

MAY 2025

Sub. Code: 2501

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Applied anatomy of bone in dental implants.
2. Enumerate the physiology of bone healing.
3. Significant uses of investment materials.
4. Calcium metabolism.
5. Need of anti-inflammatory drugs in prosthodontics.
6. Anatomy and applied Anatomy of Temporomandibular joint.
7. Hepatitis prevention and precautions.
8. Parametric test.
9. Macro and micro anatomy of palate for maxillary complete denture.
10. Biomimetic materials.

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

[MDS 1025]

OCTOBER 2025

Sub. Code: 2501

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Haemophilia.
2. Developmental disorders of teeth.
3. Cleft lip and palate.
4. Disinfection of dental impressions.
5. Role of artificial saliva.
6. Biocompatibility of dental alloys.
7. Desensitizing agents.
8. Vitamins.
9. Anaphylaxis.
10. Maxillo facial prosthesis materials.

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

[MDS 0526]

MAY 2026

Sub. Code: 2501

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242501

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Importance of retromolar pad in mandibular dentures.
2. Significance of oral mucosa in complete denture.
3. Bone quality and bone quantity in dental implants.
4. Biocompatibility tests for dental materials.
5. Role of tissue conditioners in abused tissues.
6. Influence of thyroid and parathyroid gland in bone metabolism.
7. Macroscopic and microscopic anatomy of hard and soft palate.
8. Non-Parametric test.
9. Primary, secondary and tertiary colonizers of implants.
10. Muscles involved in myofascial pain disorder syndrome.
