

[LO 511]

MAY 2019

Sub. Code: 2511

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

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Venous drainage of Head and Neck.
2. Surgical anatomy of extra cranial course of Facial Nerve.
3. Management of patient prone for Infective Endocarditis in Minor Oral Surgery.
4. Uses of Biostatistics.
5. Fluid and Electrolyte management following blood loss due to trauma.
6. Muscles of the tongue and its applied anatomy.
7. Articaine.
8. Leukemia.
9. Rule of 2.
10. Discuss about the Coagulation factors and its clinical importance.

[LP 511]

OCTOBER 2019

Sub. Code: 2511

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

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Describe the spread of Infection into different Spaces from the Mandibular molars.
2. Enumerate Pain pathway from the mandibular molar teeth with a diagram.
3. Sterilization.
4. Tumor Markers.
5. Post Exposure Prophylaxis for HIV.
6. Discuss about the Vasoconstrictors and its role used in Local Anesthesia.
7. Parametric tests.
8. Surgical anatomy of TMJ.
9. Discuss about the waves of ECG and its interpretations.
10. Role of NSAID in oral surgery.

[LQ 511]

**NOVEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 2511

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

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Explain in detail about Cavernous Sinus and its tributaries.
Write a note on Cavernous Sinus Thrombosis.
2. Development of Palate and its abnormalities.
3. Muscles of Mastication.
4. Sterilization of surgical instruments and materials.
5. Evaluation and management of Hypovolemic Shock.
6. Regulation of body temperature.
7. Serological tests.
8. Tetanus and its prophylaxis.
9. Therapeutic use of Adrenaline.
10. Role of laboratory investigations in oral surgery.

[MDS 0321]

**MARCH 2021
(OCTOBER 2020 SESSION)**

Sub. Code: 2511

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

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Explain the Intra-Cranial and Extra-Cranial Course of Facial Nerve and its Applied Aspects.
2. Pharyngeal Arches.
3. Classify Local Anesthetics and Explain the Mechanism of Action of Local Anesthetics.
4. Describe the Taste Pathway and Lymphatic Drainage of Tongue.
5. Complications of Blood Transfusion.
6. Wound Healing.
7. Anaphylactic Reaction.
8. Clotting Mechanism and its Factors.
9. MRI.
10. Write a Note on Fluid and Electrolyte Balance.

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

[MDS 0322]

**MARCH 2022
(MAY 2021 SESSION)**

Sub. Code: 2511

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

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Enumerate the branches of external carotid artery. Add a note on ECA ligation.
2. Explain various approaches to the facial skeleton structures.
3. Discuss in detail fluid and electrolyte management in postoperative poly trauma patient.
4. Pathogenesis of the cyst of jaw.
5. Muscles of the tongue.
6. Role of vitamins.
7. Blood clotting mechanism.
8. Role of steroids in oral surgery.
9. Culture and sensitivity testing in orofacial region.
10. Mechanism of salivary secretion.

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

[MDS 0522]

**MAY 2022
(OCTOBER 2021 SESSION)**

Sub. Code: 2511

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

FIRST YEAR

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

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

1. Embryology in relation to Dentofacial Anamolies.
2. Describe the mechanism of action of local anesthetics and discuss briefly on long acting local anesthetics.
3. Fungal infection of Orofacial region. Add a note on diagnostic procedures.
4. Write a brief note on Leucocytosis.
5. Complications of wound healing.
6. Blood clotting mechanism in hemophiliac patient. Add a note on management.
7. Fracture healing.
8. Surgical anatomy of TMJ and clinical significance.
9. Absolute and Relative Contra Indications of Extraction.
10. Culture and sensitivity testing in Orofacial region.

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

[MDS 0722]

**JULY 2022
(MAY 2022 SESSION)**

Sub. Code: 2511

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

FIRST YEAR

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

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

1. Various routes of drug administration. Advantages and disadvantages.
2. Source of Nosocomial infection, prevention and management.
3. Venous drainage of face.
4. Describe the pathogenesis of Osteoradionecrosis with a note on Hyperbaric Oxygen therapy.
5. Pathway of pain from upper third molar.
6. Write about the importance of enzyme studies
 - a. Eosinophilic Granuloma.
 - b. Paget's disease.
7. CD4 marker.
8. Serum Creatinine.
9. Histological variants of Ameloblastoma and clinical significance.
10. Discuss the approaches to the sub mandible triangle and its applied anatomy.

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

[MDS 0223]

FEBRUARY 2023

Sub. Code: 2511

M.D.S. DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Explain the development of Face and its relation to Dental anomalies.
2. Explain the structures with the Parotid gland. Write a note on its applied aspects.
3. Ludwig's angina.
4. Write a note on chemical mediators of Inflammation.
5. Pathophysiology of shock.
6. Hypersensitivity reactions.
7. Role of vitamins in coagulation.
8. Explain the pathway of pain.
9. Neurophysiology of local anesthesia.
10. Role of steroids in oral surgery.

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

[MDS 0723]

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

Sub. Code: 2511

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

FIRST YEAR

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Role of vasoconstrictors in Local Anaesthesia.
2. Extraocular muscles.
3. Developmental Anatomy of Tongue.
4. Midline swellings of Neck.
5. External carotid artery.
6. Cerebrospinal Fluid.
7. Infective Endocarditis.
8. Serological test.
9. Tetanus and its Prophylaxis.
10. Sterilization of Operating room.

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

[MDS 1023]

OCTOBER 2023

Sub. Code: 2511

M.D.S. DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Surgical Anatomy of Temporomandibular joint.
2. Management of Patient on steroid therapy in minor Oral Surgery.
3. Management of Blood loss during Primary Trauma Care.
4. Development of Face.
5. Sensory innervation of Face.
6. Septic Shock.
7. Extended Spectrum Penicillin.
8. Deep Vein Thrombosis.
9. Role of Culture and Sensitivity tests in Oral Surgery.
10. Spread of Infection from Mandibular Molars.

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

[MDS 1223]

DECEMBER 2023

Sub. Code: 2511

M.D.S DEGREE EXAMINATION

FIRST YEAR

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Surgical anatomy of facial nerve.
2. Management of electrolyte imbalance during postoperative care in maxillofacial surgery.
3. Lymphatic drainage of head and neck.
4. Cavernous sinus thrombosis.
5. Infective Endocarditis.
6. Embryology of cleft lip and palate.
7. Role of physiotherapy in oral surgery.
8. Microbial flora of oral cavity.
9. Coagulation factors and bridge therapy.
10. Felypressin.

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

[MDS 1024]

OCTOBER 2024

Sub. Code: 2511

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Discuss the role of antibiotics in the management of oral and maxillofacial infections and potential complications related to antibiotic use.
2. Discuss the hormonal regulation of renal function, focusing on the role of aldosterone and antidiuretic hormone (ADH).
3. Describe the anatomical relationships in the lateral pharyngeal space and their clinical implications.
4. Describe the relevant anatomy in the surgical management of Submandibular Salivary Gland Excision.
5. Explain the pharmacology of benzodiazepines and their clinical applications.
6. Discuss the principles of chemotherapy and the mechanisms of action of cytotoxic anticancer drugs.
7. Explain how the understanding of the biochemical basis of inflammation can guide the management of postoperative complications.
8. Explain how genetic factors contribute to the development of congenital malformations in the oral and facial region.
9. Define a cross-sectional study. What are its key features? Provide an example of a cross-sectional study relevant to dental research.
10. Describe the pathogenesis of radicular cysts and their association with pulpal and periapical inflammation.

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

[MDS 0525]

MAY 2025

Sub. Code: 2511

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Discuss the pathogenesis and clinical manifestation of oral Submucous fibrosis.
2. Describe strategies for preventing and managing allergic reactions in patients with known allergies.
3. Explain the purpose of ANOVA in dental research. How does it differ from t-tests? Provide an example where ANOVA would be more suitable.
4. Describe the clinical presentation and management of COVID-19-associated fungal infections.
5. Discuss the physiological changes associated with the healing of oral mucosal wounds and their implications in surgical procedures.
6. Discuss the anatomical structures involved in a mandibular nerve block and its clinical significance in oral surgery.
7. Describe the pharmacological management of hypertension, including the use of different antihypertensive drug classes.
8. Explain the surgical anatomical course of the facial nerve and its branches in relation to parotid gland surgery.
9. Discuss the genetic basis of syndromes with oral manifestations that may require surgical intervention.
10. Discuss the principles of opioid pharmacology and their application in pain management.

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

[MDS 1025]

OCTOBER 2025

Sub. Code: 2511

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH III – ORAL AND MAXILLOFACIAL SURGERY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242511

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Surgical Anatomy of Facial Artery.
2. Rule of 10.
3. Prophylactic Antibiotics in Oral Surgery.
4. Development of Palate and its abnormalities.
5. Muscles of Mastication.
6. Sterilization of surgical instruments and materials.
7. Evaluation and management of Hypovolemic Shock.
8. Regulation of body temperature.
9. Histological variants of Ameloblastoma and clinical significance.
10. Ludwig's angina.
