

[LO 536]

MAY 2019

Sub. Code: 2536

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

PART – I

BRANCH VIII – PAEDIATRIC DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Local anesthetic agents.
2. Immunoglobulins.
3. Opportunistic infections.
4. Maxillary nerve with its branches and clinical applications.
5. Vitamin D and calcium metabolism.
6. Epilepsy and its management.
7. Antibiotics used for children.
8. Case control study.
9. Hemophilia and its management.
10. Development of plate and its anomalies.

[LP 536]

OCTOBER 2019

Sub. Code: 2536

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

PART – I

BRANCH VIII – PAEDIATRIC DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Probiotics.
2. Sterilization of dental instruments.
3. Vital signs assessed in children.
4. Mandibular nerve with its branches and clinical applications.
5. Anaphylaxis.
6. Thalassemia.
7. Randomized controlled trial.
8. Plaque biofilm and oral health.
9. Balanced diet.
10. Development of tongue.

[LQ 536]

**NOVEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 2536

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

PART – I

BRANCH VIII – PAEDIATRIC DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Discuss the management of cleft lip and palate with special emphasis on the role of Paedodontist.
2. Classify Haemophilia. Write in detail about its management.
3. Discuss in detail the relationship of diet, nutrition and Dental Caries.
4. Discuss the Theories of craniofacial complex growth.
5. Describe the dosage of commonly used Antibiotics prescribed for children.
6. Discuss in detail different Sampling Techniques.
7. Describe the post natal growth of Mandible.
8. Discuss in detail the methods of Sterilization for dental instruments.
9. Elaborate on the sources, requirements and functions of Vitamin K.
10. Describe the modes of transmission of Hepatitis B infection and its prevention.

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

[MDS 0322]

**MARCH 2022
(MAY 2021 SESSION)**

Sub. Code: 2536

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

PART – I

BRANCH VIII – PAEDIATRIC AND PREVENTIVE DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Pain Pathway.
2. Balanced diet.
3. Normal oral microflora.
4. Temporomandibular joint.
5. Vitamin B complex.
6. Mechanism of blood coagulation.
7. Non-steroidal anti-inflammatory drugs used for children.
8. Cohort study.
9. Bronchial asthma.
10. Muscles of mastication.

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

[MDS 0223]

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

Sub. Code: 2536

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

FIRST YEAR

PART – I

BRANCH VIII – PAEDIATRIC AND PREVENTIVE DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

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

1. Describe the course and distribution of Mandibular Nerve. Add a note on variations of Inferior Alveolar Nerve in children.
2. Describe the normal Clotting Mechanism and discuss about various Bleeding disorders seen in children.
3. Define Antigen and Antibody. What are Antigen and Antibody Reaction?
4. Randomized Controlled Trial.
5. Discuss the Anatomy of Temporomandibular joint and its Significance.
6. Describe the sources, requirement and Metabolism of Calcium and its Deficiency Manifestations.
7. Write in detail the Management of AIDS patient in Dental Office.
8. Discuss the process of Healing of Surgical Wound.
9. Describe the Role of Genetics in Dental Caries.
10. Enumerate the composition of Saliva and its Role in Buffering Capacity.

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

[MDS 0723]

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

Sub. Code: 2536

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

FIRST YEAR

PART – I

BRANCH VIII – PAEDIATRIC AND PREVENTIVE DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Describe in detail the Prenatal and Post Natal Development of Mandible.
2. Describe the Composition, Functions and Regulation of Secretion of Saliva.
3. How is Vitamin D formed and activated in the Body? Write a note on Hyper and Hypovitaminosis D in a growing Child.
4. Describe in detail the Pathway of Pain.
5. Describe the Dosage of commonly used Analgesics Prescribed for Children.
6. Discuss the Role of Microorganisms in Dental Caries.
7. Discuss in detail the Chemical Mediators of Inflammation.
8. Write in detail the Muscles of Mastication.
9. Define Dental Plaque. Discuss its Formation.
10. Explain Growth Trends and Growth Spurts in detail.

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

[MDS 1223]

DECEMBER 2023

Sub. Code: 2536

M.D.S DEGREE EXAMINATION

FIRST YEAR

PART – I

BRANCH VIII – PAEDIATRIC AND PREVENTIVE DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Streptococcus mutans.
2. Formation of palate and associated anomalies.
3. Chemical mediators of inflammation.
4. Pain pathway.
5. TMJ disorders in children.
6. Autosomal dominant inheritance.
7. Broad spectrum Antibiotics.
8. Vitamin C
9. Emergency drugs in Pediatric dentistry.
10. Leukemia in children.

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

[MDS 1024]

OCTOBER 2024

Sub. Code: 2536

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH VIII – PAEDIATRIC AND PREVENTIVE DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Muscles of tongue.
2. Drugs used for local anesthesia.
3. Growth of mandible with its nerve supply and blood supply.
4. Parathyroid hormone and calcium metabolism.
5. Development of tooth.
6. Window of infectivity.
7. Infection control in dental practice.
8. Vitamin A.
9. Vascular changes in inflammation.
10. Facial Palsy.

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

[MDS 0525]

MAY 2025

Sub. Code: 2536

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH VIII – PAEDIATRIC AND PREVENTIVE DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Bleeding disorders in children.
2. Muscles of Tongue.
3. Functional matrix theory.
4. Role of vitamins in oral health.
5. Development of tongue.
6. Measures of central tendency.
7. Monoclonal antibodies.
8. Calculation of drug dosage for children.
9. Etiology, pathogenesis, progression of pulpal infections.
10. Anomalies of tooth.

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

[MDS 1025]

OCTOBER 2025

Sub. Code: 2536

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH VIII – PAEDIATRIC AND PREVENTIVE DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Haemophilia – Classification and management.
2. Maxillary nerve – course and its distribution. Add a note on nerve supply of primary dentition.
3. Age related growth and development in mandible and clinical significance in pediatric dentistry.
4. Vitamin B 12.
5. Taste buds.
6. Mechanism of tooth eruption on the basis of various theories proposed and the applied aspects.
7. Oral sedative drugs used in children.
8. Events associated with inflammation.
9. Viral infections in children.
10. 't' Test and Analysis of Variance.

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

[MDS 0526]

MAY 2026

Sub. Code: 2536

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH VIII – PAEDIATRIC AND PREVENTIVE DENTISTRY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242536

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Discuss in detail the Prenatal and Postnatal Development of Maxilla.
2. Immunization schedule.
3. Preprocedural preparation of Child undergoing General Anaesthesia.
4. Wound healing.
5. Sterilization and Disinfection in Dental Operatory.
6. Difference between the Gingiva of Child and Adult.
7. Defence mechanism of Saliva.
8. Tests of Significance.
9. Role of Diet in Dental caries.
10. Pedigree chart.
