

[LO 526]

MAY 2019

Sub. Code: 2526

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

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Histology of Bone Cells.
2. Factors controlling Calcium Metabolism.
3. Anti-Oxidants.
4. Pathogenesis of Edema.
5. Sterilization and Disinfection.
6. Composition and Functions of Saliva.
7. Brief note on p53.
8. Explain briefly the theories of Tooth Eruption.
9. Types of RNA.
10. Types of Study Design.

[LP 526]

OCTOBER 2019

Sub. Code: 2526

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

PART – I

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PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

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

1. Describe in detail the course of the facial nerve. Add a note on the relevant clinical conditions associated with pathology of this nerve.
2. Describe the mechanism of clot formation. Add a note on its dental implications.
3. What are vitamins? Discuss the role of vitamins in maintaining homeostasis of various oral tissues.
4. What are cell adhesion proteins? Enumerate the oral disorders associated with them.
5. List the different types of degeneration. Discuss in detail the degeneration involved commonly in oral tissues.
6. Discuss the microbial flora of the oral cavity in normal and in Immuno-suppressed subjects.
7. Discuss the immunology of dental caries.
8. How do microbes adhere to oral structures? Add a note on the clinical implications of the same.
9. What is hypothesis testing?
10. What is basal lamina? Add a note on pathologies associated with basal lamina.

[LQ 526]

**NOVEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 2526

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

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Trigeminal nerve and its branches.
2. Calcification.
3. Immunoglobulins.
4. Phagocytosis.
5. Modes of transmission of all types of hepatitis.
6. Explain the function and control of salivary secretion.
7. Proto-Oncogene.
8. Undifferentiated mesenchymal cells.
9. Type I hypersensitivity reaction.
10. Measures of central tendency.

[MDS 0321]

**MARCH 2021
(OCTOBER 2020 SESSION)**

Sub. Code: 2526

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

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

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

1. Describe the Lymphatic Drainage of Oral and Perioral Structures. Add a note on the Lymphatic Spread of Malignancies.
2. Enumerate the list of Hormones that help to maintain the Serum Calcium level. Describe its Impact on Clinical Dental Practice.
3. What is Vitamin C? Describe the Clinical Features of Deficiency of Vitamin C with a note on Mechanism of development of Deficiency Status.
4. What are Inclusion Bodies? Add a note on the Inclusion Bodies that are of interest in the Dental/Oral Tissues.
5. Classify Anemia. Describe the Oral Manifestations of Anemia with a note on the Laboratory Findings.
6. What are the Defense Mechanisms the Oral Cavity against normal and Pathogenic Microbes?
7. Describe the Immunology of Acute Gingival Diseases.
8. What are the Gram Negative Organisms in the Oral Cavity? Add a note on their Pathological Implications.
9. Describe the different types of tests used for Measuring Central Tendencies and the situations they are used in.
10. What is Reduced Enamel Epithelium? Describe the Pathologies Associated with this type of Epithelium.

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

[MDS 0322]

**MARCH 2022
(MAY 2021 SESSION)**

Sub. Code: 2526

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

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Human Saliva.
2. Bacteriophage.
3. Mitochondria.
4. Chemical Carcinogenesis.
5. Mitosis.
6. Taste Buds.
7. Lymphatic Drainage of Head & Neck.
8. Chemical mediators in Inflammation.
9. Null Hypothesis.
10. Calcium Metabolism.

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

[MDS 0522]

**MAY 2022
(OCTOBER 2021 SESSION)**

Sub. Code: 2526

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

FIRST YEAR

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Brief note on developmental abnormalities of Tongue.
2. Calcium Metabolism.
3. Prostaglandins.
4. Apoptosis.
5. Culture Media.
6. Histology of Salivary Glands.
7. Cell Cycle.
8. Explain Epithelial Mesenchymal interactions in Amelogenesis.
9. Acquired Immunity.
10. Sampling Methods.

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

[MDS 0722]

**JULY 2022
(MAY 2022 SESSION)**

Sub. Code: 2526

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

FIRST YEAR

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

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

1. Epithelium.
2. Hypersensitivity Reaction.
3. Macrophages.
4. Karyotyping.
5. Bias in Research.
6. Leukopenia.
7. Non-keratinocytes.
8. Theories of Tooth Eruption.
9. Human Immuno – Deficiency Virus.
10. Glycemic Index.

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

[MDS 0223]

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

Sub. Code: 2526

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

FIRST YEAR

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY
PAPER I – APPLIED BASIC SCIENCES**

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Histology of Bone.
2. Intramembranous Ossification.
3. Degeneration.
4. Muscles of Mastication.
5. Polycythaemia.
6. Junctional Epithelium.
7. Chi – Square Test.
8. Epstein bar Virus.
9. Lipoproteins.
10. Buffers.

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

[MDS 0723]

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

Sub. Code: 2526

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

FIRST YEAR

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY
PAPER I – APPLIED BASIC SCIENCES**

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Muscles of Mastication.
2. Dentinogenesis.
3. Mumps.
4. Vitamin – A.
5. Cytoskeleton.
6. Sterilization.
7. Hematoxylin and Eosin staining.
8. Histoplasmosis.
9. Measures of Variability.
10. Neutrophils.

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

[MDS 1023]

OCTOBER 2023

Sub. Code: 2526

M.D.S. DEGREE EXAMINATION

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

FIRST YEAR

PART – I

BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND

ORAL MICROBIOLOGY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Describe the Course, Relations, Branches and Applied Anatomy of the Mandibular Nerve.
2. Describe the Composition of Human Saliva and each of its Related Functions.
3. What are Vitamin Deficiencies? Discuss in detail with Special Emphasis on Oral Findings.
4. What is Cytoplasm? Discuss the composition of it with a note on its Function.
5. What is Amyloidosis? Describe the Etiopathogenesis, Clinical Features of Oral Amyloidosis.
6. What are the types of Oral Ecological Systems? Add a note on the Commensals and Pathogenic Organisms Associated with each Ecological Systems.
7. Describe the Immunology of Chronic Periodontal Diseases.
8. What is Junctional Epithelium? Why is the Integrity of this Epithelium necessary?
9. Discuss the differences between Quantitative and Qualitative Research.
10. What are Clear Cells in Oral Epithelium? Discuss the Morphology and features of such Clear Cells.

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

[MDS 1223]

DECEMBER 2023

Sub. Code: 2526

M.D.S DEGREE EXAMINATION

FIRST YEAR

PART – I

BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND

ORAL MICROBIOLOGY

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Muscles of tongue.
2. Herpes simplex.
3. Life cycle of ameloblasts.
4. Vitamin – D.
5. Cell cycle.
6. Culture media.
7. Exfoliative cytology.
8. Lab diagnosis of candidiasis.
9. Measures of central tendency.
10. Giant cells.

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

[MDS 1024]

OCTOBER 2024

Sub. Code: 2526

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Maxillary sinus.
2. Herpes zoster.
3. Tissue repair.
4. Cementoblasts.
5. Vitamin- B complex.
6. Cellular organelles.
7. Diagnosis of Tuberculosis.
8. Physiological Root Resorption.
9. Sampling methods.
10. Mucormycosis.

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

[MDS 0525]

MAY 2025

Sub. Code: 2526

M.D.S DEGREE EXAMINATION

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

FIRST YEAR

PART – I

**BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND
ORAL MICROBIOLOGY**

PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Enumerate DNA and RNA viruses and write in detail about Epstein Bar Virus.
2. Cytokines and Chemokines.
3. Ductal system of Salivary glands.
4. Development of face and its defects.
5. Enumerate various blood sugar tests and write in detail about post prandial blood sugar and its significance.
6. Necrosis and Autolysis.
7. Growth and development of mandible.
8. What is a systematic review?
9. Neurobiotaxis.
10. Structure and function of condylar cartilage.

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

[MDS 1025]

OCTOBER 2025

Sub. Code: 2526

M.D.S DEGREE EXAMINATION

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FIRST YEAR

PART – I

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PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Apoptosis.
2. Inclusion bodies.
3. Test of significance.
4. Seventh Cranial nerve.
5. Neural crest cells and its derivatives.
6. Anti-oxidants.
7. Pain pathway.
8. Role of Vitamins in oral health.
9. Describe the modes of spread of tumours.
10. Waste disposal management.

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

[MDS 0526]

MAY 2026

Sub. Code: 2526

M.D.S DEGREE EXAMINATION

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FIRST YEAR

PART – I

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PAPER I – APPLIED BASIC SCIENCES

Q.P. Code: 242526

Time: 3 Hours

Maximum: 100 Marks

I. Elaborate on:

(10 x 10 = 100)

1. Significance of bacterial enzymes in the infections of oral cavity.
2. Molecular aspects of tooth development.
3. Immunoglobins.
4. Cell junctions.
5. Cell cycle.
6. Human papilloma virus.
7. Resting lines and reversal lines.
8. Histology of salivary acini.
9. P value.
10. Development of tongue.
