

[MDS 0721]

**JULY 2021
(MAY 2021 SESSION)**

Sub. Code: 2523

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

PART – II

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – CLINICAL ORTHODONTICS

Q.P. Code: 242523

Time: 3 Hours

Maximum: 100 Marks

I. Essay: (2 x 25 = 50)

1. Discuss on various Fixed Functional Appliances, its mechanism of action and the recent advances.
2. Discuss on the management of Skeletal Open Bite.

II. Short Essays: (5 x 10 = 50)

1. Biomechanics of incisor intrusion.
2. SPEED Brackets.
3. Torquing auxiliaries.
4. Biofinisher.
5. Washboard and Draw bridge effect.

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

[MDS 1225]

DECEMBER 2025

Sub. Code: 2523

M.D.S. DEGREE EXAMINATION
(Candidates admitted for the Academic Year 2022-2023 only)

FINAL YEAR

PART – II

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – CLINICAL ORTHODONTICS

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: **(2 x 25 = 50)**

1. Discuss the biological mechanism of tooth movement.
2. Discuss the evolution from conventional to contemporary management strategies for deep bite correction in orthodontics. Highlight key treatment modalities, advancements and their impact on treatment outcomes and patient satisfaction.

II. Short Essays: **(5 x 10 = 50)**

1. Obstructive Sleep Apnea.
2. Whit spot lesion.
3. Torquing auxiliaries.
4. Shape memory and super-elasticity.
5. Teuscher-stockli activator.

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

[MDS 1121]

**NOVEMBER 2021
(OCTOBER 2021 SESSION)**

Sub. Code: 2523

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

PART – II

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – CLINICAL ORTHODONTICS

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: (2 x 25 = 50)

1. Transverse expansion: Orthodontic, Orthopaedic and Surgical Management.
2. Discuss on various modalities of non extraction fixed Orthodontic Treatment.

II. Short Essays: (5 x 10 = 50)

1. Reverse Orthodontics
2. Orchestration of Tooth Movement
3. Connecticut intrusion arch
4. Limitations in Orthodontics
5. Frog appliance.

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

[MDS 0622]

**JUNE 2022
(MAY 2022 SESSION)**

Sub. Code: 2523

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

**FINAL YEAR
PART – II
BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
PAPER II – CLINICAL ORTHODONTICS**

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: **(2 x 25 = 50)**

1. Discuss on various fixed functional appliances, its mechanism of action and recent advances.
2. Discuss on the management of skeletal open bite.

II. Short Essays: **(5 x 10 = 50)**

1. Bio mechanics of Incisor intrusion.
2. Speed Brackets.
3. Bio finisher.
4. 0.018 vs 0.022 SLOT.
5. Torquing auxiliaries.

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

[MDS 1022]

OCTOBER 2022

Sub. Code: 2523

M.D.S. DEGREE EXAMINATION

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

PART – II

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – CLINICAL ORTHODONTICS

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Discuss about the various implant sites and safe zones for the placement of temporary anchorage devices. Elaborate on the biomechanics of incisor retraction and molar intrusion with mini implant anchorage.
2. Critically evaluate the contemporary usage of functional appliances.

II. Short Essays:

(5 x 10 = 50)

1. Causes of root resorption.
2. Retention protocol in different malocclusions.
3. Principles of accelerated osteogenic orthodontics.
4. Magnets in Orthodontics.
5. Surgery first orthognathic approach.

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

[MDS 0723]

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

Sub. Code: 2523

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

**FINAL YEAR
PART – II
BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
PAPER II – CLINICAL ORTHODONTICS**

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: **(2 x 25 = 50)**

1. Discuss in detail the Molecular mechanisms in accelerated tooth movement.
2. Discuss the various self ligating brackets and critically evaluate the concept of self ligation.

II. Short Essays: **(5 x 10 = 50)**

1. Frictionless mechanics of retraction.
2. The role of Orthodontist in distraction osteogenesis.
3. Vertical maxillary excess.
4. Intrusion with temporary anchorage devices.
5. Molar distalisation – recent trends.

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

[MDS 1023]

OCTOBER 2023

Sub. Code: 2523

M.D.S. DEGREE EXAMINATION

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

FINAL YEAR

PART – II

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – CLINICAL ORTHODONTICS

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Discuss in detail the current concepts on Functional Appliances and Mandibular Growth Stimulation.
2. Discuss about the Extra Alveolar Mini Implants with respect to their indications, contraindications, insertion sites and biomechanics.

II. Short Essays:

(5 x 10 = 50)

1. Magnets in Orthodontics.
2. Advancements in Orthodontic bonding materials.
3. Root resorption and its significance.
4. Biomechanics of intrusion and extrusion with clear aligners.
5. Newer retainers.

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

[MDS 1024]

OCTOBER 2024

Sub. Code: 2523

M.D.S. DEGREE EXAMINATION

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

FINAL YEAR

PART – II

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – CLINICAL ORTHODONTICS

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Discuss in detail the management of Asymmetrical Malocclusions.
2. Discuss the causes and Orthodontic management of Temporomandibular Joint dysfunction.

II. Short Essays:

(5 x 10 = 50)

1. Early Orthodontic treatment.
2. Clinical effectiveness of Clear Aligner treatment compared to fixed appliances.
3. Biologic approaches to reduce relapse in Orthodontics.
4. Molar distalisation – recent trends.
5. Surgery first approach.

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

[MDS 0525]

MAY 2025

Sub. Code: 2523

M.D.S. DEGREE EXAMINATION

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

FINAL YEAR

PART – II

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – CLINICAL ORTHODONTICS

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Discuss in detail about the diagnosis and management of impacted canines.
2. Discuss the different types of loops used for space closure.

II. Short Essays:

(5 x 10 = 50)

1. Ramal bone screws.
2. Discuss various methods for assessment of facial asymmetry.
3. Describe the frictional forces in orthodontics.
4. What is p value? Discuss its significance in reporting statistical evaluation in orthodontic research.
5. New trends in orthodontic bonding systems.

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

[MDS 1225]

DECEMBER 2025

Sub. Code: 2523

M.D.S. DEGREE EXAMINATION
(Candidates admitted for the Academic Year 2022-2023 only)

FINAL YEAR

PART – II

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – CLINICAL ORTHODONTICS

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay: **(2 x 25 = 50)**

1. Discuss the biological mechanism of tooth movement.
2. Discuss the evolution from conventional to contemporary management strategies for deep bite correction in orthodontics. Highlight key treatment modalities, advancements and their impact on treatment outcomes and patient satisfaction.

II. Short Essays: **(5 x 10 = 50)**

1. Obstructive Sleep Apnea.
2. Whit spot lesion.
3. Torquing auxiliaries.
4. Shape memory and super-elasticity.
5. Teuscher-stockli activator.

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

[MDS 0526]

MAY 2026

Sub. Code: 2523

M.D.S. DEGREE EXAMINATION

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

FINAL YEAR

PART – II

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – CLINICAL ORTHODONTICS

Q.P. Code: 242523

Time: 3 Hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay:

(2 x 25 = 50)

1. Discuss in detail the various concepts and biomechanics involved in orthodontic traction of impacted canines. Elaborate on the surgical exposure techniques and their clinical indications.
2. A 10-year-old male patient presents with a complaint of abnormal jaw position. Clinical examination reveals a reserve overjet of 3 mm associated with maxillary transverse deficiency. Discuss the probable clinical condition, the diagnostic work-up required for confirmation and the various orthodontic and orthopedic treatment modalities available for its correction.

II. Short Essays:

(5 x 10 = 50)

1. Incisor torque control in edge wise appliance.
2. Molar distalization.
3. Orthodontically Induced EARR.
4. Bite Registration.
5. Stability following orthodontic treatment.
