

[LI 383]

JUNE 2016

Sub. Code: 2469

M.D.S DEGREE EXAMINATION

(For the Candidates Admitted from the Academic Year 2013-2014 onwards)

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER III – CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Q.P. Code : 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. Bracket placement in Orthodontic Bonding.
2. Write in detail about intra oral auxiliaries used with fixed orthodontic appliances.

II. Short Notes:

(7 x 5 = 35)

1. Alt-RAMEC Technique.
2. Topjet appliance.
3. Utility arches.
4. Functional Regulator IV.
5. Theory of self- ligating brackets.
6. Guidelines for stability following orthodontic treatment.
7. Explain Surgery first concept in orthognathic surgical management.

[LJ 383]

OCTOBER 2016

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Q.P. Code : 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. Customized precision prescription appliances.
2. Closing spaces with loops in arch wires.

II. Short Notes:

(7 x 5 = 35)

1. The cantilever bite jumper.
2. Opening spaces during orthodontic treatment.
3. EVAA appliance.
4. Temporary anchorage devices.
5. Debonding Techniques.
6. Surgical techniques to expose un-erupted tooth.
7. Envelope of discrepancy.

[LK 383]

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Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. Discuss the various deleterious effects of forces in orthodontic treatment. Describe the precautions to be taken to minimize these effects during orthodontic treatment.
2. Discuss fixed functional appliances in detail including their evolution, classification and recent advances.

II. Short Notes:

(7 x 5 = 35)

1. Borderline malocclusions and their treatment.
2. Temporary anchorage devices.
3. Methods of minimizing anchorage loss in straight wire fixed orthodontic technique.
4. Nano technology in orthodontics.
5. Self ligating bracket systems.
6. Orthodontic management of medically compromised patients.
7. Obstructive sleep apnoea.

[LL 383]

OCTOBER 2017

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Q.P. Code : 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. What is Torquing of teeth? Discuss the different methods of torquing. What are the advantages and disadvantages of each method?
2. Discuss the various treatment options for sagittal correction of non-complaint adolescent patients.

II. Short Notes:

(7 x 5 = 35)

1. Concepts of functional occlusion.
2. Clear aligners.
3. Speedy orthodontics.
4. Growth considerations in orthodontic stability.
5. Indirect bonding.
6. Discuss the different bracket systems used in orthodontics.
7. Root resorption in orthodontics. Add a note on the role of genetics in root resorption.

[LM 383]

MAY 2018

Sub. Code: 2469

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BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER III – CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Q.P. Code : 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. Bio Progressive Therapy Principles and Treatment Mechanics.
2. Differential Force Technique and their limitations.

II. Short Notes:

(7 x 5 = 35)

1. Cleft Orthodontics.
2. Bone Anchored Maxillary Protraction concept.
3. Pitch, roll and Yaw in Orthodontics.
4. Driftodontics and Wilkcodontics.
5. Management of Vertical Growers.
6. Segmental arch technique.
7. Indications for absolute anchorage.

[LN 383]

OCTOBER 2018

Sub. Code: 2469

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Q.P. Code: 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. Discuss the Biomechanical principles and drawbacks of maxillary protraction. Add a note on the newer methods of maxillary protraction.
2. Describe the etiology, classification and clinical features of open bite malocclusion. Discuss in detail about the diagnosis and treatment including recent advances of skeletal open bite.

II. Short Notes:

(7 x 5 = 35)

1. V-bend Principle.
2. Orthodontic Scars.
3. Accelerated orthodontics.
4. Hybrid appliances.
5. Current evidence of functional appliance therapy.
6. Customized bracket positioning.
7. Methods of torquing in orthodontics.

[LO 383]

MAY 2019

Sub. Code: 2469

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Q.P. Code: 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. One Couple vs. Two Couple system in orthodontic biomechanics.
2. Mechanics of straight Wire Appliance system by Andrews.

II. Short Notes:

(7 x 5 = 35)

1. CAD – CAM applications in Orthodontics.
2. Versatility of Tip edge appliance system.
3. Bonding failures.
4. Friction in orthodontics.
5. Regional Acceleratory Phenomenon.
6. Difference between Labial and Lingual Biomechanics.
7. Aligning highly placed canines.

[LP 383]

OCTOBER 2019

Sub. Code: 2469

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Q.P. Code: 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. Discuss various treatment strategies of Class III malocclusions.
2. Discuss the biological mechanisms of tooth movement. Add a note on various methods to accelerate tooth movement during orthodontic treatment.

II. Short Notes:

(7 x 5 = 35)

1. Implant biomechanics.
2. Uprighting of molars.
3. Mini plates as anchorage device.
4. Limitations of adult orthodontics.
5. Distraction osteogenesis.
6. Transpalatal arch and its modifications.
7. Magnets in orthodontics.

[LQ 383]

**NOVEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 2469

**M.D.S DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 to 2017-2018)**

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER III – CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Q.P. Code: 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. Classify Vertical Discrepancies. Discuss the management of vertical Maxillary excess in growing child.
2. What are the contemporary occlusal and gnathological goals of finishing an Orthodontic case. Discuss how these factors impact retention and long term stability?

II. Short Notes:

(7 x 5 = 35)

1. Levelling by intrusion.
2. Force systems and tissue response to Orthopaedic and Orthodontic forces.
3. Naso alveolar moulding.
4. Deprogramming splints.
5. L S U activator.
6. Regional acceleratory phenomenon.
7. Essix retainer.

[MDS 0321]

**MARCH 2021
(OCTOBER 2020 SESSION)**

Sub. Code: 2469

**M.D.S DEGREE EXAMINATION
(For the Candidates Admitted from the Academic Year 2013-2014 to 2017-2018)**

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER III – CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Q.P. Code: 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays: **(2 x 20 = 40)**

1. Describe in detail about the steps involved in Rickett's Visual Treatment Objective.
2. Define functional Occlusion. Explain the concept, advantages and methods to achieve functional Occlusion according to Roth.

II. Short Notes: **(7 x 5 = 35)**

1. Cleft Palate Management.
2. Maxillary Intrusion Splint.
3. Torquing Auxiliaries in Begg Technique.
4. Root Resorption.
5. Implant Assisted Expansion.
6. Retention Protocol in Different Malocclusions.
7. Prevention of Relapse.

[MDS 0721]

**JULY 2021
(MAY 2021 SESSION)**

Sub. Code: 2469

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PAPER III – CLINICAL ORTHODONTICS AND MECHANOTHERAPY**

Q.P. Code: 242469

Time: 3 Hours

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. Enumerate and discuss the contemporary occlusal and gnathologic goals for finishing an Orthodontic case. Add a note on how these factors impact retention and long term stability?
2. Discuss the diagnostic, pre and post surgical and orthodontic management of the adult severe mandibular prognathic patient in an orthodontic practice. Add a note on the complications, iatrogenic sequelae and long term surveillances of these patients.

II. Short Notes:

(7 x 5 = 35)

1. Soldering and welding in Orthodontics.
2. Management of 'Gummy Smile'.
3. Nano technology – Applicability in Orthodontics.
4. 'V' bend Mechanics.
5. Growth Prediction.
6. Inter Canine Distance.
7. Anchorage Loss.

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

[MDS 1121]

**NOVEMBER 2021
(OCTOBER 2021 SESSION)**

Sub. Code: 2469

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Q.P. Code: 242469

Time: 3 Hours

Answer ALL Questions

Maximum: 75 Marks

I. Essays:

(2 x 20 = 40)

1. Describe in detail about treatment strategies for Deep Bite Malocclusion for adult patients.
2. Describe finishing and detailing with Preadjusted Edgewise appliance.

II. Short Notes:

(7 x 5 = 35)

1. Onplant.
2. Japanese niti arch wires.
3. Segmental arch wire biomechanics.
4. Orthotic splint.
5. Regional acceleratory phenomenon.
6. Modifications of Pendulum appliance.
7. Herbst appliance.
