

MARCH 2007

[KQ 402]

Sub. Code : 2420

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

**(For candidates admitted from the Academic Year
2004–2005 onwards)**

**Paper IV — RECENT ADVANCES IN
ORTHODONTICS**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

1. Recent advances in CT imaging and lasers. (25)
 2. Digital photography in orthodontics. (25)
 3. Current controversies in orthodontics. (25)
 4. Esthetic orthodontic appliances. (25)
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SEPTEMBER 2007

[KR 402]

Sub. Code : 2420

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

**(For candidates admitted from the Academic Year
2004–05 onwards)**

**Paper IV — RECENT ADVANCES IN
ORTHODONTICS**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Recent advances in orthodontic brackets and wires. (25)
 2. Distraction osteogenesis : basic principles and clinical applications. (25)
 3. Advanced craniofacial imaging in orthodontics. (25)
 4. Classify functional appliances and write in detail about recent advances in fixed functional appliances.(25)
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MARCH 2008

[KS 384]

Sub. Code : 2420

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

(For candidates admitted from the Academic Year
2004–05 onwards)

Paper IV — RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (4 × 25 = 100)

1. 3-D imaging in orthodontics.
 2. “Paperless office” concept in orthodontics.
 3. Refinements in Begg technique.
 4. Recent advances in orthodontic biomaterials.
-

[KT 384]

September 2008

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V – ORTHODONTICS

(For Candidates admitted from 2004-2005 onwards)

Paper IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(4 X 25 = 100)

1. Management of impacted canine.
 2. Recent advances in anchorage devices.
 3. Recent advances in diagnostic aids.
 4. Recent advances in growth studies.
-

March 2009

[KU 384]

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

Branch V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(4 x 25 = 100)

1. Define friction. Discuss the entities of friction, notching and binding of archwires in contemporary orthodontic tooth movement with the preadjusted/edgewise appliance. Add a note on its clinical significance.
2. Discuss the various qualitative and quantitative approaches to assess the effectiveness of orthodontic treatment. Comment on the utility of the IOTN and PAR indices in this regard.
3. Discuss the application of computer technology in orthodontic practice management and in achieving a paperless office. Comment on its contribution to overall efficiency and practice economics.
4. Discuss the principles of Randomised clinical trials and its relevance to evidence based orthodontics. Add a note on the principles and utility of meta-analysis in orthodontic research with illustrative examples.

September 2009

[KV 384]

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

Branch V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(4 x 25 = 100)

1. Outline the evolution and describe the contemporary designs and usage of temporary anchorage devices (orthodontic implants) for orthodontic tooth movement. Add a note on the possible iatrogenic sequelae of its use.
2. Outline the clinical features of skeletal open bite. Discuss its management with non-surgical, posterior intrusion techniques and methods in a growing child.
3. Outline the treatment protocol for a child with severe unilateral cleft of the lip and palate from birth to adulthood. Discuss the role of secondary alveolar bone grafts and its timing in the management of the problem.
4. What are the constituents and components of facial beauty and its perception? Discuss the current concepts of a balanced face. Add a note on the speculated mathematical basis of beauty.

March 2010

[KW 384]

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

Branch V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(4 x 25 = 100)

1. What is curve of sphee? What is its role in malocclusion?
Recent methods in correcting this.
2. Recent systems in controlling mandibular prognathism, which is under develoment.
3. Discuss the etiology of crowding. What are the recent methods of preventing and treating it?
4. Recent concepts in controlling various malocclusions at genetic level.

October 2011

[KZ 384]

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. Diagnosis and management of transverse skeletal problems in growing patients. | 15 | 45 | 25 |
| 2. Non extraction treatment. | 15 | 45 | 25 |
| 3. Upper airway and craniofacial morphology. | 15 | 45 | 25 |
| 4. Treatment of patients in the mixed dentition. | 15 | 45 | 25 |

[LA 384]

APRIL 2012

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Role of Gnathology in Orthodontics.	18	45	25
2. Invisible Orthodontics.	18	45	25
3. Current concepts and techniques of bonding in orthodontics.	18	45	25
4. CBCT and its applications in orthodontics.	18	45	25

[LB 384]

OCTOBER 2012

Sub. Code: 2420

**M.D.S. DEGREE EXAMINATION
BRANCH V – ORTHODONTICS AND
DENTOFACIAL ORTHOPAEDICS
PAPER IV – RECENT ADVANCES IN ORTHODONTICS
Q.P. Code : 242420**

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss heritability of skeletal malocclusion. Write in detail the recent advances in genetics and molecular biology.	18	45	25
2. What are the factors affecting clinical selection of orthodontic wires? Discuss recent advances in orthodontics materials.	18	45	25
3. Recent system in correcting mandibular retrognathism which are under development.	18	45	25
4. Recent advances in the field of Temporomandibular dysfunction- Diagnosis and management.	18	45	25

[LC 384]

APRIL 2013

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time : 3 hours

Maximum : 100 marks

(4x25=100)

1. Diagnosis and management of transverse skeletal problems in growing patients.
2. Non extraction treatment.
3. Upper airway and craniofacial morphology.
4. Treatment of patients in the mixed dentition.

[LD 384]

OCTOBER 2013

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

(4 x 25 = 100)

1. 3D imaging in orthodontics.
2. Indirect bonding.
3. Recent advances in Lingual orthodontics.
4. Adult orthodontics – recent advances and its application.

[LE 384]

APRIL 2014

Sub. Code: 2420

**M.D.S. DEGREE EXAMINATION
BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
PAPER IV – RECENT ADVANCES IN ORTHODONTICS**

Q.P. Code : 242420

Time : 3 hours

Maximum : 100 marks

(4x25=100)

1. Iatrogenic damage following orthodontic treatment.
2. Wilckodontics.
3. Describe the philosophy of self ligating bracket, explain in detail the biomechanics and compare it differences with conventional brackets.
4. Use of temporary anchorage devices in orthodontics.

[LF 384]

OCTOBER 2014

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time : 3 Hours

Maximum : 100 Marks

(4 x 25 = 100)

1. Discuss role of 3D Cone Beam Computerised Tomography (CBCT) in orthodontic diagnosis and treatment planning and write a note about merits and demerits.
2. Newer Orthodontic arch wires. Add a note on bioforce wires.
3. Recent advances of Clinical photography in orthodontics.
4. Enumerate the recent advances in the biology of tooth movement. Write a note on signalling molecules and neuro transmitters in orthodontic tooth movement.

[LG 384]

APRIL 2015

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time: Three Hours

Maximum: 100 marks

(4 x 25 = 100)

1. Enumerate different methods of molar distalisation and discuss the recent advances.
2. List out the uses of magnets in orthodontics and discuss the recent advances in orthodontic materials.
3. Recent system in controlling mandibular prognathism, during developmental growth.
4. Recent methods of studying bone growth – enumerate and discuss.

[LH 384]

OCTOBER 2015

Sub. Code: 2420

M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time : 3 Hours

Maximum : 100 Marks

(4 x 25 = 100)

1. Practice management in orthodontics. Add a note on orthodontic office design.
2. Current thinking about growth modification planning. Discuss one phase versus two phase treatment.
3. Describe about the recent advances in the management of impacted teeth.
4. Discuss the evolution of bracket prescriptions in orthodontics. Add a note on newer bracket prescriptions in orthodontics.

[LK 384]

JUNE 2017

Sub. Code: 2420

M.D.S DEGREE EXAMINATION
(For the Candidates Admitted up to the Academic Year 2012-2013 only)

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHODONTICS

Q.P. Code : 242420

Time : 3 Hours

Maximum : 100 Marks

(4 x 25 = 100)

1. Recent advances in understanding mechanically induce bone remodelling and their relevance to orthodontic theory and practice.
2. Discuss about the role of vertical dimension in orthodontics.
3. Discuss about the contemporary evidence related to Self-Ligating brackets.
4. Newer advancement in the management of class III Malocclusion.
