[KQ 400]   Sub. Code : 2418

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

(For candidates admitted from the Academic year
2004-05 onwards)

Paper II — GROWTH AND DEVELOPMENT, BASICS
IN ORTHODONTICS, DIAGNOSIS AND RADIOLOGY

Time : Three hours   Maximum : 100 marks

Theory : Two hours and   Theory : 80 marks

forty minutes

M.C.Q. : Twenty minutes   M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I.   Essay Questions

1.   Discuss the emerging trends and recent advances
in imaging of the craniofacial area for orthodontic
purposes. Add a note on three dimensional
cephalometrics.   (20)

2.   Discuss in detail the late growth changes in the
human face.   (15)

3.   Discuss in detail the "Servo system" theory of
facial growth and its importance in orthodontics.   (15)

II.   Short notes   (6 × 5 = 30)

(a)   Various dental cast analysis (model) and
their importance in orthodontics.

(b)   Importance of Parathormone in orthodontics

(c)   Speech and malocclusion

(d)   Natural head position in cephalometry

(e)   Importance of IMPA in Indian context

(f)   Growth Trends.

2   **[KQ 400]**

SEPTEMBER 2007

[KR 400]   **Sub. Code : 2418**

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

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

Paper II — GROWTH AND DEVELOPMENT, BASICS
IN ORTHODONTICS, DIAGNOSIS AND RADIOLOGY

Time : Three hours   Maximum : 100 marks

Theory : Two hours and   Theory : 80 marks
　　　　forty minutes

M.C.Q. : Twenty minutes   M.C.Q. : 20 marks

Answer ALL questions.

I.　Essay :

1.　Discuss in detail prenatal and postnatal growth of
mandible.   (20)

2.　Various imaging techniques and its applications in
TMJ.   (15)

3.　Define and classify habits. Write in detail clinical
features of adenoid faces and their management.   (15)

II.　Short notes :   (6 × 5 = 30)

(a)　'C'-axis.

(b)　Shortcomings of ANB.

(c)　Homeobox genes.

(d)　Visual Treatment Objective.

(e)　Rickett's four step analysis.

(f)　Adreno Cortico Trophic Hormones.

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MARCH 2008

[KS 382]   Sub. Code : 2418

M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Orthodontics

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

Paper II — GROWTH AND DEVELOPMENT, BASICS IN
ORTHODONTICS, DIAGNOSIS AND RADIOLOGY

Q.P. Code : 242418

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

I.   Essay :   (2 × 20 = 40)

1. Evolution of TMJ.

2. Hand wrist radiographs.

II.   Short notes :   (6 × 10 = 60)

1. ALARA principle.

2. Growth relativity.

3. Wolfe's law.

4. Psychological aspects of habits.

5. Buccinator mechanism.

6. IOTN.

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M.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch V – ORTHODONTICS

(For Candidates admitted from 2004-2005 onwards)

Paper II –   GROWTH AND DEVELOPMENT, BASICS IN ORTHODONTICS, DIAGNOSIS AND RADIOLOGY

Q.P. Code : 242418

Time : Three hours   Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :   **(2 X 20 = 40)**

1. Discuss the adjustments of maxillomandibular complex from birth to adulthood with reference to the developing dentition.

2. Discuss the functional analysis in Orthodontic diagnosis.

II. Write short notes on :   **(6 X 10 = 60)**

1. Radiographic localization of impacted canine.

2. Anthrometric studies and its importance in Orthodontics.

3. Natural head position.

4. Self correcting malocclusion.

5. Growth site and growth centre.

6. Xi-point.

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March 2009

[KU 382]   **Sub. Code: 2418**

M.D.S. DEGREE EXAMINATION

Branch V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper II – GROWTH AND DEVELOPMENT,
BASICS IN ORTHODONTICS, DIAGNOSIS AND RADIOLOGY
Q.P. Code : 242418

Time : Three hours   **Maximum : 100 marks**

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :   **(2 x 20 = 40)**

1. Describe the features of Facial Asymmetry and correlate them to growth and development. What are the imaging modalities usable for diagnosis and treatment planning. Add a note on its age related management.

2. Enumerate the advantages and disadvantages of conventional Cephalometrics. What is the basis of Morphometrics? Discuss the various morphometric methods and its application in Orthodontics.

II. Write short notes on :   **(6 x 10 = 60)**

1. Digital Radiography.
2. Accuracy of computerized Cephalometric software.
3. Growth forecasting and its accuracy.
4. Natural Head position.
5. Oral stereognosis.
6. Psychology of patient compliance in orthodontics.

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[KV 382]   **Sub. Code: 2418**

M.D.S. DEGREE EXAMINATION

Branch V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper II – GROWTH AND DEVELOPMENT,
BASICS IN ORTHODONTICS, DIAGNOSIS AND RADIOLOGY
Q.P. Code : 242418

Time : Three hours   **Maximum : 100 marks**

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :   **(2 x 20 = 40)**

1. Enumerate and briefly outline the indicators and methods of assessing growth onset, peak height velocity and its cessation in clinical practice. Compare and contrast the utility of hand wrist x'rays vs cervical vertebrae maturation.

2. Describe the role of airway patency in normal facial growth. Enumerate and outline the common airway obstructive conditions seen in orthodontic practice and their effect or dentofacial morphology.

II. Write short notes on :   **(6 x 10 = 60)**

1. Primary failure of eruption.

2. Morphometrics.

3. Ricketts four step analysis.

4. Balanced facial profile.

5. Orthognathic surgery during growth.

6. Maxillary transverse deficiency.

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March 2010

[KW 382]   Sub. Code: 2418

M.D.S. DEGREE EXAMINATION

Branch V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

(Revised Regulations)

(For Candidates admitted from 2004 - 2005 onwards)

Paper II – GROWTH AND DEVELOPMENT,
BASICS IN ORTHODONTICS, DIAGNOSIS AND RADIOLOGY
Q.P. Code : 242418

Time : Three hours   **Maximum : 100 marks**

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :   **(2 x 20 = 40)**

1. Discuss about inherent errors in conventional cephalometrics and how are they over come in digital cephalometrics?
2. Computerized tomography in orthodontics.

II. Write short notes on :   **(6 x 10 = 60)**

1. IOPA radiographs in orthodontic diagnosis
2. Effect of x-rays radiation on genesis.
3. Principle of panaromic radiography.
4. Radiation hazards in orthodontic practice.
5. Functional matrix concept.
6. Evaluate the problems of the emotionally disturbed child from orthodontic point of view.

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[KZ 382]   **Sub. Code: 2418**

M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – GROWTH AND DEVELOPMENT, BASICS IN ORTHODONTICS, DIAGNOSIS AND RADIOLOGY

Q.P. Code : 242418

Time : 3 hours   **Maximum : 100 marks**
(180 Min)

Answer ALL questions in the same order.

I. Elaborate on :	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Functional Matrix Theory.	6	18	10
2. Discuss the development of dentition and the factors contributing for a stable occlusion.	6	18	10
3 .Embryological disorders causing malocclusion and malocclusion associated syndromes.	6	18	10
4. Role of hormones in growth and development.	6	18	10
5. Development of temperomandibular joint and its anatomical attachment.	6	18	10
6. Erikson's eight stages of emotional development.	6	18	10
7. Discuss the post-natal growth of maxilla and mention the causes for facial asymmetry.	6	18	10
8. Methods of assessing growth and factors influencing nasolabial angle.	6	18	10
9. The divine proportion and its significance.	6	18	10
10. Cephalometric methods of assessing vertical dimension.	6	18	10

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[LB 382]   **OCTOBER 2012**   **Sub. Code: 2418**
M.D.S. DEGREE EXAMINATION
BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
PAPER II – GROWTH AND DEVELOPMENT, BASICS IN
ORTHODONTICS, DIAGNOSIS AND   RADIOLOGY
Q.P. Code : 242418

Time : 3 hours   Maximum : 100 marks
      (180 Min)

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Growth Trends.	7	18	10
2. Primary and Secondary Cartilage.	7	18	10
3. Genomic Growth.	7	18	10
4. Buccinators mechanism and safety valve mechanism.	7	18	10
5. Hand wrist x-ray.	7	18	10
6. Development of dentition from birth to adulthood.	7	18	10
7. Evolution of human face.	7	18	10
8. Teratogens.	7	18	10
9. Malocclusion associated with syndromes.	7	18	10
10. Functional matrix theory revisited.	7	18	10

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M.D.S. DEGREE EXAMINATION
BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
PAPER II –   GROWTH AND DEVELOPMENT, BASICS IN
ORTHODONTICS, DIAGNOSIS AND   RADIOLOGY
Q.P. Code : 242418

Time : 3 hours   **Maximum : 100 marks**

(10x10=100)

1. Functional matrix thrapy and its clinical implications.

2. Skeletal maturity indicators.

3. Evolution of TMJ.

4. Anthropometric studies.

5. Radiovisuography.

6. Orofacial muscles and buccinator mechanism.

7. Development of occlusion.

8. Theories of tooth eruption.

9. Cybernetics and servo system.

10. Pierre-Robin syndrome.

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M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – GROWTH AND DEVELOPMENT, BASICS IN ORTHODONTICS, DIAGNOSIS AND RADIOLOGY

Q.P. Code : 242418

Time: Three Hours   **Maximum: 100 marks**

Answer ALL questions in the same order.

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

   1. Methods for studying physical Growth

   2. Role of neural crest in craniofacial anomalies

   3. Facial Proportions

   4. Indices of orthodontic treatment need

   5. Cognitive development

   6. Pitch, Roll and yaw

   7. Digital photography

   8. Tube shift method

   9. Orthodontic Triage

  10. Pitchfork Analysis.

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M.D.S. DEGREE EXAMINATION
BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
PAPER II –   GROWTH AND DEVELOPMENT, BASICS IN
ORTHODONTICS, DIAGNOSIS AND   RADIOLOGY

Q.P. Code : 242418

Time : 3 hours   **Maximum : 100 marks**

(10X10=100)

1. Functional matrix theory – Revisited.

2. Rotation of jaws during growth.

3. Mini Esthetics.

4. Digital study models.

5. Evolution of orthodontic appliances.

6. Digigraph.

7. Template analysis.

8. Transverse Dysplasia.

9. Natural head position in cephalometrics.

10. Management of problem child.

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M.D.S. DEGREE EXAMINATION

BRANCH V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

PAPER II – GROWTH AND DEVELOPMENT, BASICS IN ORTHODONTICS, DIAGNOSIS AND RADIOLOGY

Q.P. Code : 242418

Time : 3 Hours   **Maximum : 100 marks**

(10 x 10 = 100)

1. Explain Counterpart theory of growth.

2. Describe about electromyography and its implications in orthodontics.

3. Discuss in detail development of palate. Enumerate the etiological factors responsible for cleft palate.

4. Deliberate the importance of soft tissue analysis and age changes in diagnosis and treatment planning.

5. Discuss in detail the functional and Cephalometric criteria for growth modification treatment.

6. Analysis of tongue posture, function, and size. Relate it to malocclusion.

7. Enumerate about the drugs that inhibit and enhance orthodontic tooth movement.

8. Describe about the etiology of upper airway constriction and its effect on malocclusion. Add a note on its management.

9. Discuss about patient compliance and motivation towards orthodontic treatment between Adult and Adolescent patients.

10. Role of genetics in orthodontics.

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