

M.D.S. Examination

Orthodontics & Dentofacial Orthopaedics : Branch V

Paper-I

(Applied Anatomy, Physiology, Pathology, Genetics Physical Anthropology & Dental Materials)

[Max. Marks : 75]

Date : 01-04-2019, Monday]

Time : 3 Hours]

- Instructions :
- (1) Figure to the right indicates marks.
 - (2) Write legibly and to the point.
 - (3) Draw diagrams wherever necessary.

1. Differentiate between Growth and Development. Write in Detail about principles of Craniofacial Growth Modifications. Add a note on "Growth Modification: What works, what not, and why?" (20 marks)
 2. Define Nutrition and Mal-nutrition. Discuss in detail about the concept of Balance diet. Add a note on Protein Energy Malnutrition as a Public Health problem in Clinical Orthodontics. (20 marks)
 3. Write short notes on Any five (7 marks each) – [35 marks]
 - a. Functions of Blood
 - b. Role of Growth Hormone on Pubertal Growth Spurt.
 - c. Randomized Control Trials (RCT) and Clinical Control Trials (CCT) as a research design in Clinical Orthodontics.
 - d. Evolution of TMJ
 - e. Stress and Strain in Orthodontic Wires.
 - f. Twin Studies.
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0419E196

Candidate's Seat No : _____

M.D.S. Examination

Orthodontics & Dentofacial Orthopaedics : Branch V

Paper-I

(Applied Basic Sciences)

[Max. Marks : 100]

Date : 16-04-2019, Tuesday]

Time : 3 Hours]

- Instructions :
- (1) Figure to the right indicates marks.
 - (2) Write legibly and to the point.
 - (3) Draw diagrams wherever necessary.
 - (4) Each question carries 10 marks.

1. Describe the formation of tongue and discuss its role in the development and maintenance of normal occlusion (10)
 2. Discuss in detail about growth rotations of the mandible and the clinical application (10)
 3. Discuss Calcium metabolism (10)
 4. Discuss briefly genetics & orthodontics (10)
 5. Discuss the role of Osteoid tissue in orthodontic tooth movement (10)
 6. Describe the Growth trends and their forecast (10)
 7. Discuss the Dimensional change in the dental arch from deciduous dentition to permanent dentition (10)
 8. Explain the diagnostic criteria for impacted canine (10)
 9. Describe in detail the concept of cortical anchorage in orthodontics (10)
 10. Discuss Anova test in brief (10)
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0419E058

Candidate's Seat No : _____

M.D.S. Examination

Orthodontics & Dentofacial Orthopaedics : Branch V

Paper II

(Diagnosis and Treatment Planning)

[Max. Marks : 75]

Date : 03-04-2019, Wednesday]

Time : 3 Hours]

- Instructions :
- (1) Figure to the right indicates marks.
 - (2) Write legibly and to the point.
 - (3) Draw diagrams wherever necessary.

1. Write about "Normal Sleep Architecture". Add a note on Etio-pathogenesis, Diagnosis and Treatment of Obstructive Sleep Apnea as a challenge in Dental sleep Medicine. (20 Marks).
 2. Define "Predictive Orthodontics". Write in detail about Growth Prediction Analysis available in Orthodontic Diagnosis. Add a note on Template Analysis (20 Marks).
 3. Write Short note on Any five (7 Marks each) (35 Marks)
 - a. Idiopathic Condylar Resorption
 - b. Density Guided Orthodontics
 - c. Yen Angle
 - d. Use of CBCT in Clinical Orthodontics
 - e. Glenoid Fossa Remodeling.
 - f. Biopsychosocial approach in TMD
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0419E110**M.D.S. Examination****Orthodontics & Dentofacial Orthopaedics : Branch V****Paper III****(Clinical Orthodontics & Mechanotherapy)****[Max. Marks : 75****Date : 05-04-2019, Friday]****Time : 3 Hours]**

- Instructions :**
- (1) Figure to the right indicates marks.
 - (2) Write legibly and to the point.
 - (3) Draw diagrams wherever necessary.

1. Classify Fixed Functional Appliances. Write in Detail about Indications, Mode of Action & Advantages of Jasper Jumper, Forsus FRD & Power-scope Appliance (20 marks).
 2. Define Headgear. Classify them. Write in Detail about biomechanical guidelines of Headgear application in Clinical orthodontics. Add a note on Vertical pull Headgear. (20 marks)
 3. Write Short notes on Any five (7 marks each)
(35 marks)
 - a. Speed Brackets
 - b. Ballista Spring
 - c. Integrated Orthodontics
 - d. Use of Skeletal Anchorage for Skeletal correction
 - e. Genioplasty
 - f. Distraction Osteogenesis.
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0419E157

Candidate's Seat No : _____

M.D.S. Examination

Orthodontics & Dentofacial Orthopaedics : Branch V

Paper IV

Essay (Modern Trends & recent Advances)

[Max. Marks : 75

Date : 09-04-2019, Tuesday]

Time : 3 Hours]

- Instructions :
- (1) Figure to the right indicates marks.
 - (2) Write legibly and to the point.
 - (3) Draw diagrams wherever necessary.

1. Current Controversies in Clinical Orthodontics. (75 marks)

OR

1. Accelerated Orthodontics: Myth or Reality? (75 marks)
