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MARAKGAD : APRIL/ MAY 2011
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-I : APPLIED BASIC SCIENCES
(2008 Course)

Day : Friday
Date : 13-05-2011

Time : 9:00 A.M. To 12:00 Noon
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Draw neat labeled diagrams **WHEREVER** necessary.

Long Essay on

(2 × 20 = 40)

- 1) Discuss concept of Nature Vs Nurture.
- 2) Write in detail the anatomic structure and movements of TMJ. Add a note on its development and evolution.

Write short Essay on

(5 × 7 = 35)

- 3) Neurologic mechanism involved in orthodontic tooth movement.
- 4) Epigenetic landscape.
- 5) Prenatal development of maxilla.
- 6) Prenatal development of tongue and maturation of oral functions.
- 7) Discuss morphometrics.

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MARAKGAD : APRIL/ MAY 2011
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-II : DIAGNOSIS AND TREATMENT PLANNING

Day : Monday (2008 course)
Date : 16-05-2011

Time : 9:00 A.M. To 12:00 Noon
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Draw neat labeled diagrams **WHEREVER** necessary.

Long Essay on

(2 × 20 = 40)

- 1) Discuss the role of soft tissues in orthodontic diagnosis and treatment planning.
- 2) Write in detail the pathophysiology of Obstructive Sleep Apnea.

Write short Essay on

(5 × 7 = 35)

- 3) Indications of early orthognathic surgeries.
- 4) Macro and micro esthetics.
- 5) Discuss the behavioral modification techniques useful for orthodontic patients.
- 6) Evaluation of smile in orthodontic treatment planning.
- 7) Methods of assessing facial asymmetry.

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MARAKGAD : APRIL/ MAY 2011
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-IV : ESSAY (2008 course)

Day : Friday
Date : 20-05-2011

Time : 9.00 A.M. To 12.00 Noon
Max. Marks : 75.

Write Essay on

(1 × 75 = 75)

Orthodontic arch wires.

OR

Lingual orthodontics.

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MARAKGAD : APRIL/ MAY 2011
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-III : CLINICAL ORTHODONTICS AND MECHANOTHERAPY
(2008 Course)

Day : Wednesday
Date : 18-05-2011

Time : 9:00 A.M. To 12:00 Noon
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Draw neat labeled diagrams **WHEREVER** necessary.

Long Essay on

(2 × 20 = 40)

- 1) What are asperites? Discuss the role of friction in orthodontic tooth movement.
- 2) Discuss effective bonding of orthodontic attachments to non-enamel surfaces.

Write short Essay on

(5 × 7 = 35)

- 3) Discuss rotation control in self ligating brackets.
- 4) Discuss the various mechanics used for simultaneous intrusion and retraction of anterior teeth.
- 5) Discuss the concept of moment to force ratio in orthodontic tooth movement.
- 6) Molar uprighting springs.
- 7) Discuss the role of removable appliances in contemporary orthodontic practice.

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MARAKKAD: APRIL / MAY - 2012
SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER - I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS
PHYSICAL ANTHROPOLOGY AND DENTAL MATERIAL

Day: Saturday
Date: 12.05.2012

Time: 9.00 A.M. To 12.00 Noon
Max. Marks: 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Discuss the adjustments of the maxillomandibular complex from birth to Adulthood with reference to the developing dentition. (20)
- Q.2** Discuss the controlling factors for bone modeling and remodeling. (20)

Short Essay Questions:

- Q.3** Infection control in orthodontics. (07)
- Q.4** Discuss Endochondral ossification Vs. Intramembranous ossification. (07)
- Q.5** Discuss canine guided Vs group guided occlusion. (07)
- Q.6** Tests of significance. (07)
- Q.7** Pain control in orthodontics. (07)

MARAKGAD APRIL / MAY - 2012
SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER - II: DIAGNOSIS AND TREATMENT PLANNING

Day: Monday
Date: 14.05.2012

Time: 9.00 A.M. To 12.00 Noon
Max. Marks: 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Discuss the pathophysiology and treatment of obstructive Sleep Apnea. (20)
- Q.2** A 11 year old female patient comes to your clinic. She has a convex profile. Her upper arch is constricted and she exhibits and mild vertical growth pattern. She also presents with a deep bite and an increased overjet of 12mm. Discuss the differential diagnosis, treatment objectives and treatment plan for this patient. (20)

Short Essay Questions:

- Q.3** Discuss orthodontic splints in the treatment of TMJ problems. (07)
- Q.4** What are anterior interferences and discuss their significance during finishing an orthodontic case. (07)
- Q.5** Discuss the behavioral modification techniques useful in orthodontics. (07)
- Q.6** C B C T. (07)
- Q.7** Esthetic consideration while orthodontic treatment planning. (07)

MARAKKAD APRIL / MAY – 2012

**SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER – III: CLINICAL ORTHODONTICS AND MECHANOTHERAPY**

Day: Wednesday
Date: 16.05.2012

Time: 9.00 AM To 12.00 Noon
Max. Marks: 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** What are asperities? Discuss the role of friction in orthodontic tooth movement. (20)
- Q.2** Discuss the role of orthodontic treatment in a cleft palate cases. (20)

Short Essay Questions:

- Q.3** KSIR. (07)
- Q.4** Space closure mechanics. (07)
- Q.5** Discuss retention with regards to different types of malocclusion. (07)
- Q.6** Discuss the various mechanics used for simultaneous intrusion and retraction of anterior teeth. (07)
- Q.7** Treatment for impacted canines. (07)

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MARAKKAD: APRIL / MAY - 2012
SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER - IV: ESSAY

Day: Friday
Date: 18.05.2012

Time: 9.00 A.M. To 12.00 No.
Max. Marks: 75

N.B.:

- 1) Answer any **ONE**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Role of functional appliances in contemporary orthodontic treatment. **(75)**

OR

Q.2 Growth prediction. **(75)**

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MARAKGAD : Oct-Nov-2013

SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-I : APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS
PHYSICAL ANTHROPOLOGY AND DENTAL MATERIALS

Day : Thursday
Date : 07-11-2013

Time : 9.00 A.M. To 12.00 Noon
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Development and derivatives of first pharyngeal arches and brief about its pathogenesis. (20)
- Q.2** Effect of bracket and wire composition on frictional forces. (20)

Short Essay Questions:

- Q.3** Orthodontic bounding to crowns and restorations. (07)
- Q.4** Autosomal dominant traits. (07)
- Q.5** Speech difficulties due to malocclusion. (07)
- Q.6** Epigenetic factors. (07)
- Q.7** Calcium Metabolism. (07)

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MARAKGAD : APRIL/ MAY 2013
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-I : APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS
PHYSICAL ANTHROPOLOGY AND DENTAL MATERIALS

Day : Thursday
Date : 25.2013

Time : 9.00 A.M To 12.00 Noon
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat diagrams **WHEREVER** necessary.
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Long Essay Questions:

- Q.1** Discuss in detail about the newer arch wires used in Orthodontics. (20)
- Q.2** Discuss the controlling factors for Bone modeling and remodeling. (20)

Short Essay Questions:

- Q.3** Discuss the role of genetics in external root resorption. (07)
- Q.4** Elastomeric ligatures and chains. (07)
- Q.5** Management of foreign body ingestion of Orthodontic origin. (07)
- Q.6** Discuss the response of the periodontal ligament to physiological force. (07)
- Q.7** Endochondral ossification vs Intramembranous ossification. (07)

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MARAKGAD : OCT. NOV. 2013

SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-II : DIAGNOSIS AND TREATMENT PLANNING

Day : Saturday
Date : 09.11.2013

Time : 9.00 A.M. To 12.00 Noon
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Discuss the etiology, diagnosis and treatment modalities of facial asymmetry. (20)
- Q.2** Discuss various growth prediction methods. (20)

Short Essay Questions:

- Q.3** Limitations of angle ANB. (07)
- Q.4** Psychological management of Rebellious child. (07)
- Q.5** Management of Bolton's discrepancy. (07)
- Q.6** Occlusogram. (07)
- Q.7** Kesling diagnostic setup. (07)

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MARAKGAD : APRIL/ MAY 2013
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-II : DIAGNOSIS AND TREATMENT PLANNING

Day : *Saturday*
Date : *4.5.2013*

Time : *9:00 A.M. To 12:00 Noon*
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat diagrams **WHEREVER** necessary.
-

Long Essay Questions:

- Q.1** Discuss the pathophysiology of Obstructive Sleep Apnea. (20)
- Q.2** Write in details about recent advances in Craniofacial Imaging in Orthodontics. (20)

Short Essay Questions:

- Q.3** Discuss the role of splints for diagnosing TMJ problems. (07)
- Q.4** What are anterior interferences and discuss their significance during finishing an orthodontic case. (07)
- Q.5** Grummon's Cephalometric Analysis. (07)
- Q.6** Self correcting malocclusions - discuss. (07)
- Q.7** Envelope of discrepancy - discuss. (07)

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MARAKGAD : Oct. Nov. 2013
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-III : CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Day : Monday
Date : 11.11.2013

Time : 9.00 A.M. To 12.00 Noon,
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat diagrams **WHEREVER** necessary.
-

Long Essay Questions:

- Q.1** Discuss the various approaches and appliances in the management of vertical deep over bite. (20)
- Q.2** Distraction osteogenesis in mandible. (20)

Short Essay Questions:

- Q.3** Hybrid expansion appliances. (07)
- Q.4** Molar protraction mechanics. (07)
- Q.5** 0.018 slot vs 0.022 slot. (07)
- Q.6** MARS appliance. (07)
- Q.7** Versatility of MBT appliance. (07)

MARAKGAD : APRIL/ MAY 2013
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-III : CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Day : *Monday*
Date : *6.5.2013*

Time : *9.00 AM To 12.00 Noon*
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat diagrams **WHEREVER** necessary.
-

Long Essay Questions:

- Q.1** Diagnosis and management of early and late skeletal class III malocclusion. (20)
- Q.2** What are asperities? Discuss the role of friction in Orthodontics. (20)

Short Essay Questions:

- Q.3** Passive v/s active self ligating brackets. (07)
- Q.4** Essix retainer. (07)
- Q.5** Reversal of white spots (decalcification). (07)
- Q.6** Loops and helices in Orthodontics. (07)
- Q.7** Utility arches. (07)

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MARAKGAD : APRIL/ MAY 2013
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-IV : ESSAY

Day : *Wednesday*
Date : *8.5.2013*

Time : *9:00 A.M. To 12:00 Noon*,
Max. Marks : 75.

N.B.:

- 1) Answer any **ONE**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Role of Functional Appliances in contemporary orthodontic.

(75)

OR

Sterilization in Orthodontics.

(75)

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MARAKGAD : Oct. Nov-2013
SUBJECT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS
PAPER-IV : ESSAY

Day : Wednesday
Date : 13-11-2013

Time : 9.00 A.M. To 12.00 Noon.
Max. Marks : 75.

N.B.:

- 1) Answer any **ONE**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat diagrams **WHEREVER** necessary.
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One phase versus Two phase treatment for class II malocclusion. (75)

OR

Limitations of Orthodontics. (75)

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MARAKGAD: APRIL / MAY 2014
SUBJECT : ORTHODONTICS & DENTOFACIAL OTHROPEDICS
PAPER - I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS
PHYSICAL ANTHROPOLOGY & DENTAL MATERIAL

Day : **Saturday**
Date : **19-04-2014**

Time : **9:00AM TO 12:00NOON**
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Discuss the effect of drugs on orthodontic tooth movement. [20]
- Q.2** Discuss Theories of growth and current methods in growth prediction and its importance in Orthodontics. [20]

Short Essay Questions:

- Q.3** Molecular basis of genetics. [07]
- Q.4** Evolution of human condyle. [07]
- Q.5** Mechanical properties of heat activated NiTi wires. [07]
- Q.6** Craniometry and anthropometry. [07]
- Q.7** Banding / Bonding Cements. [07]

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WINTER - 2014

MARAKGAD:

SUBJECT : ORTHODONTICS & DENTOFACIAL OTHROPEDICS
PAPER - I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS
PHYSICAL ANTHROPOLOGY & DENTAL MATERIAL

Day : Tuesday
Date : 11-11-2014

Time : 9.00 A.M. To 12.00 Noon
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1 Anatomical limitations of orthodontic treatment. [20]
- Q.2 Discuss the emotional growth and development through infancy upto adulthood with reference to orthodontic treatment. [20]

Short Essay Questions:

- Q.3 Self etching primer. [07]
- Q.4 Esthetic wires. [07]
- Q.5 Physiology of speech. [07]
- Q.6 Randomized clinical trial. [07]
- Q.7 Saliva. [07]

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MARAKGAD: APRIL / MAY 2014
SUBJECT : ORTHODONTICS & DENTOFACIAL OTHROPEDICS
PAPER - II: DIAGNOSIS & TREATMENT PLANNING

Day : Monday
Date : 21-04-2014

Time : 9:00AM TO 12:00 NOON
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Discuss the etio-pathology of cleft lip and palate. Describe the various orthodontic procedures carried out in the management of CLCP. [20]
- Q.2** Discuss the management of a difficult child in the orthodontic clinic. [20]

Short Essay Questions:

- Q.3** Psychological state of an adult patient undergoing orthodontic treatment. [07]
- Q.4** Approach of orthodontic treatment for periodontally compromised adult patient. [07]
- Q.5** Steps in Orthodontic treatment planning. [07]
- Q.6** Role of Internet in orthodontics. [07]
- Q.7** STO. [07]

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MARAKGAD:

WINTER - 2014

SUBJECT : ORTHODONTICS & DENTOFACIAL OTHROPEDECS
PAPER - II: DIAGNOSIS & TREATMENT PLANNING

Day : Thursday
Date : 13-11-2014

Time : 9.00 A.M. To 12.00 Noon
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1 How will you assess the antero-posterior apical base discrepancy? Formulate your own lateral cephalometric composite analysis for a preadolescent with Skeletal vertical dysplasia and justify. [20]
- Q.2 Discuss latest diagnostic aids in orthodontics. Describe in detail role of CBCT in orthodontics. [20]

Short Essay Questions:

- Q.3 Write the management of derangement of condyle-disc complex. [07]
- Q.4 Methods of predicting Facial growth changes. [07]
- Q.5 Macro and micro-esthetics. [07]
- Q.6 Write the factors affecting the response of early treatment. [07]
- Q.7 Occlusogram. [07]

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MARAKGAD: APRIL / MAY 2014
SUBJECT : ORTHODONTICS & DENTOFACIAL OTHROPEDICS
PAPER - III: CLINICAL ORTHODONTICS & MECHANOTHERAPY

Day : Friday
Date : 25-04-2014

Time : 9:00AM-TO 12:00NOON.
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Discuss the protocol of finishing and detailing procedure. [20]
- Q.2** Discuss various methods for correction of transverse discrepancies and appliances use for the same. [20]

Short Essay Questions:

- Q.3** Active retainers. [07]
- Q.4** Progressive Torque. [07]
- Q.5** Aligners. [07]
- Q.6** Management of scissors bite. [07]
- Q.7** In extraction cases closure of Excess space in mandibular arch. [07]

MARAKGAD:

WINTER - 2014

SUBJECT : ORTHODONTICS & DENTOFACIAL ORTHOPEDICS
PAPER - III: CLINICAL ORTHODONTICS & MECHANOTHERAPY

Day : Saturday
Date : 15-11-2014

Time : 9.00 A.M. To 12.00 Noon
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** A ten year old boy reports to Dept. of orthodontia with the chief complaint of proclined maxillary anterior teeth. Complete clinical evaluation and Cephalometric analysis reveals a skeletal class II malocclusion. Write the management of the same. [20]
- Q.2** Controversies of growth modification therapy in the treatment of class III malocclusion. [20]

Short Essay Questions:

- Q.3** Periodontal surgical retention procedures. [07]
- Q.4** KSIR Arch. [07]
- Q.5** Inter-disciplinary Treatment of Orthodontic Patient [07]
- Q.6** Sliding vs loop mechanics. [07]
- Q.7** Force vector analysis of class II elastics. [07]

MARAKGAD: APRIL / MAY 2014
SUBJECT : ORTHODONTICS & DENTOFACIAL OTTHROPEDICS
PAPER - IV: ESSAY

Day : Monday
Date : 28.04-2014

Time : 9:00AM TO 12:00NOON
Max. Marks : 75

N.B.:

- 1) Answer **ANY ONE**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Updates on biological foundations of tooth movement.

[75]

OR

Q.2 '3-D Imaging in Orthodontics'.

[75]

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MARAKGAD:

WINTER - 2014

SUBJECT : ORTHODONTICS & DENTOFACIAL OTHROPEDICS
PAPER - IV: ESSAY

Day : Monday
Date : 17-11-2014

Time : 9.00 A.M. To 12.00 Noon
Max. Marks : 75

N.B.:

- 1) Answer **ANY ONE**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Co-operation for Orthodontic Treatment.

[75]

OR

Q.2 Torque Control.

[75]

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MARAKGAD : SUMMER 2015
SUBJECT : PAPER-I – APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY,
GENETICS, PHYSICAL ANTHROPOLOGY AND DENTAL MATERIALS

Day : Monday
Date : 20-04-2015

Time : 9-00 A.M. To 12-00
Max. Marks : 75. Noon

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw labeled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1 Discuss the physiology of stomatognathic system in relation to malocclusion. (20)
- Q.2 Describe the orthodontic bonding materials and techniques used. (20)

Short Essay Questions:

- Q.3 Evolution of teeth (07)
- Q.4 Role of Analgesics in orthodontics. (07)
- Q.5 In-vivo studies in clinical orthodontic research. (07)
- Q.6 Genetic limitations for orthodontic treatment. (07)
- Q.7 Beta titanium alloy. (07)

MARAKGAD : WINTER - 2015
**SUBJECT : PAPER-I – APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY,
GENETICS, PHYSICAL ANTHROPOLOGY AND DENTAL MATERIALS**

Day : Saturday
Date : 31/10/2015

Time : 09.00 AM TO 12.00 NOON
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw labeled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1 Discuss in detail the development of hard palate and enumerate the pathophysiology in cleft lip and palate patients. (20)
- Q.2 Discuss nutritional and hormonal factors affecting growth and development of face. (20)

Short Essay Questions:

- Q.3 Regulation of calcium metabolism in the human body. (07)
- Q.4 Obstructive sleep apnea. (07)
- Q.5 Infection control during orthodontic treatment. (07)
- Q.6 Paired T-Tests. (07)
- Q.7 Balanced diet for child during mixed dentition stage. (07)

MARAKGAD : SUMMER 2015
SUBJECT : PAPER-II – DIAGNOSIS AND TREATMENT PLANNING

Day : *Wednesday*
Date : *29.04.2015*

Time : *9.00 A.M. To 12.00*
Max. Marks : 75. *Noon*

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw labeled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1 Write the factors influencing orthodontic tooth movement. What are the biologic considerations that limit the potential of adult orthodontic treatment? (20)
- Q.2 What is 'Pseudo class-III' malocclusion? How will you analyze a lateral cephalogram of 8 year old child with anterior cross bite? (20)

Short Essay Questions:

- Q.3 "2 x 4" appliance. (07)
- Q.4 Role of 'growth spurts' in orthodontic treatment planning. (07)
- Q.5 Etiopathogenesis of developing mandibular asymmetry. (07)
- Q.6 Tongue space analysis. (07)
- Q.7 Envelop of Discrepancies. (07)

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MARAKGAD : WINTER - 2015
SUBJECT : PAPER-II – DIAGNOSIS AND TREATMENT PLANNING

Day : Monday
Date : 02/11/2015

Time : 09.00 AM TO 12.00 NOON
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw labeled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1 How will you manage handicapped child in orthodontic practice? (20)
- Q.2 New Dimensions in Orthodontic Imaging and evaluation. (20)

Short Essay Questions:

- Q.3 Bolton's analysis. (07)
- Q.4 Current status of growth prediction. (07)
- Q.5 IOTN Index (07)
- Q.6 Orthodontic treatment planning for Borderline cases. (07)
- Q.7 Natural head position. (07)

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MARAKGAD : SUMMER 2015
SUBJECT : PAPER-III – CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Day : Friday
Date : 24.04.2015

Time : 9.00 A.M. To 12.00 Noon
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw labeled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** What is friction? Discuss the role of friction in orthodontics. Write about the self-ligating bracket system. (20)
- Q.2** Discuss the controversies of treatment timings of skeletal Class-II malocclusion in a growing child. (20)

Short Essay Questions:

- Q.3** Splint in TMD. (07)
- Q.4** Principles of treatment in open bite cases. (07)
- Q.5** Surgery first concept. (07)
- Q.6** Biomechanical considerations in the use of micro implants. (07)
- Q.7** Molar distalization. (07)

MARAKGAD : WINTER - 2015
SUBJECT : PAPER-III – CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Day : Wednesday
Date : 04/11/2015

Time : 09.00 AM TO 12.00 NOON
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw labeled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Discuss the space closure mechanics in minimum anchorage requirement with second premolar extraction case in PEA prescription. Write the factors involved in considering the Machanotherapy. (20)
- Q.2** Discuss mini-implants as an anchorage in orthodontics. (20)

Short Essay Questions:

- Q.3** Alpha-Beta Angle. (07)
- Q.4** Management of impacted and maxillary canine. (07)
- Q.5** Invisible retainers. (07)
- Q.6** Hybrid appliances. (07)
- Q.7** Inter-proximal reduction. (07)

MARAKGAD : SUMMER 2015
SUBJECT : PAPER-IV – AN ESSAY

Day : Monday
Date : 27-04-2015

Time : 9:00 A.M. To 12:00
Max. Marks : 75. Noon

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Draw labeled diagrams **WHEREVER** necessary.

Q.1 Write an essay on:

(75)

a) Accelerated Orthodontics

OR

b) Lingual orthodontics.

* * *

MARAKGAD : WINTER - 2015
SUBJECT : PAPER-IV – AN ESSAY

Day : Friday
Date : 06/11/2015

Time : 09.00 AM TO 12.00 NOON
Max. Marks : 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Draw labeled diagrams **WHEREVER** necessary.

Q.1 Write an essay on:

(75)

- a) Orthodontic Treatment Planning.

OR

- b) Orthodontic Arch wires.

* * *

MARAKGAD : SUMMER – 2016
SUBJECT : APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY GENETICS
PHYSICAL ANTHROPOLOGY & DENTAL MATERIALS
(PAPER – I)

Day : Monday
Date : 06/06/2016

Time : 09.00 AM TO 12.00 NOON
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Long Essay Questions:

- Q.1** Which are the conditions caused due to parathyroid hormone deficiencies? [20]
Discuss how an orthodontist would tackle such conditions.
- Q.2** Discuss in detail the developmental changes of the soft tissues of the face. [20]

Short Essay Questions:

- Q.3** Goslon Yardstick [07]
- Q.4** Calcium Metabolism [07]
- Q.5** Chi-Square Test [07]
- Q.6** Twin studies [07]
- Q.7** Development of Tongue [07]

MARAKGAD : SUMMER – 2016
SUBJECT : DIAGNOSIS & TREATMENT PLANNING
(PAPER – II)

Day : Wednesday
Date : 08/06/2016

Time : 09.00 AM TO 12.00 NOON
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Long Essay Questions:

- Q.1 Discuss in detail the soft tissue evaluation in Orthognathic Surgical treatment planning. [20]
- Q.2 Discuss the various orthodontic implications in psychologically and clinically handicapped child. How will you manage such a child in your office. [20]

Short Essay Questions:

- Q.3 Pitch, Yaw and Roll [07]
- Q.4 Enlow's Counterpart Analysis [07]
- Q.5 Role of the Orthodontist and Temporomandibular Dysfunction [07]
- Q.6 Methods of assessing facial asymmetry [07]
- Q.7 Importance of MRI in diagnosis of TMD [07]

MARAKGAD : SUMMER – 2016
SUBJECT : CLINICAL ORTHODONTICS & MECHANOTHERAPY
(PAPER – III)

Day : Friday
Date : 10/06/2016

Time : 09.00 AM TO 12.00 NOON
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Long Essay Questions:

- Q.1** Discuss VME and its management. [20]
- Q.2** Discuss the scope and limitations of early orthodontic treatment. [20]

Short Essay Questions:

- Q.3** Problems while retracting incisor segment [07]
- Q.4** Force vector analysis of Class II elastics and their effects [07]
- Q.5** Brader Arch Form [07]
- Q.6** Nasoalveolar Molding [07]
- Q.7** Combination Bracket Systems [07]
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MARAKGAD : SUMMER – 2016
SUBJECT : ESSAY
(PAPER – IV)

Day : Monday
Date : 13/06/2016

Time : 09.00 AM TO 12.00 NOON
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Q.1 Orthognathic Surgery vs. Distraction Osteogenesis. **[75]**

OR

Q.2 Accelerated Orthodontics. **[75]**

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MARKAND GAD SUMMER 2017
SUBJECT : PAPER-I : APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY
GENETICS PHYSICAL ANTHROPOLOGY AND DENTAL MATERIALS

Day : Friday
Date : 19/05/2017

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Describe role of nutrition and hormones in growth and development. (20)
- Q.2** Describe with example the servo-system theory of growth and development of face and write its significance in clinical orthodontics. (20)

Short Essay Questions:

- Q.3** Management of foreign body ingestion of orthodontic origin. (07)
- Q.4** Discuss homeobox genes and maturation. (07)
- Q.5** Evolution of Temporomandibular joint. (07)
- Q.6** NSAID's used in Orthodontics. (07)
- Q.7** Management of haemophilic patients. (07)

MARKANDYAD SUMMER 2017
SUBJECT : PAPER-II : DIAGNOSIS AND TREATMENT PLANNING

Day : Monday
Date : 22/05/2017

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1 Discuss the etiology and essential investigations in treatment planning of facial asymmetry. (20)
- Q.2 Discuss the management of physically and mentally handicapped child in Orthodontics. (20)

Short Essay Questions:

- Q.3 Progressive torque. (07)
- Q.4 Functional Analysis of Tongue. (07)
- Q.5 Development of Speech. (07)
- Q.6 Smile Esthetics. (07)
- Q.7 Diagnosis and investigations for impacted canines. (07)

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MARKANDYAD : SUMMER 2017
SUBJECT : PAPER-III : CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Day : Wednesday
Date : 24/05/2017

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 75.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Classify fixed functional appliances and discuss in detail the recent trends in fixed functional appliances. (20)
- Q.2** Management of high angle cases. (20)

Short Essay Questions:

- Q.3** Nonsurgical management of transverse dimension. (07)
- Q.4** Use of orthodontic microscrews in controlling vertical growth of the face. (07)
- Q.5** Infantile orthopedics. (07)
- Q.6** Hybrid Appliance (07)
- Q.7** Accelerated orthodontics. (07)

MARKANDGAD SUMMER 2017
SUBJECT : PAPER-IV : ESSAY

Day : Friday
Date : 26/05/2017

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 75.

N.B.:

- 1) Figures to the **RIGHT** indicate full marks.
 - 2) Draw neat diagrams **WHEREVER** necessary.
-

Controversies in Orthodontics.

(75)

OR

Treatment considerations in Adult Orthodontics.

(75)

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**M.D.S. ORTHODONTICS & DENTOFACIAL ORTHOPEDICS :
SUMMER - 2018**

SUBJECT: PAPER-IV – ESSAY

Day : **Friday**
Date : **15/06/2018**

S-2018-3618

Time : **09.00 AM TO 12.00 NOON**
Max. Marks: 75.

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
-

Q.1 Diagnosis-Hard and Soft tissue paradigms! (75)

OR

Q.2 Extraction vs. Non-extraction. (75)

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150618-m-dental-pune

M.D.S. Orthodontics & Dentofacial Orthopedics : SUMMER - 2019
SUBJECT: PAPER – III: CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Day: Thursday
Date: 06/06/2019

S-2019-4074

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labeled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1 Discuss the various methods of levelling the arches. (20)
- Q.2 Discuss management of impacted canines. (20)

Short Essay Questions:

- Q.3 Obstructive Sleep Apnea (07)
- Q.4 Index of Complexity Outcome and Need (ICON). (07)
- Q.5 Differential force technique. (07)
- Q.6 Surgery First (07)
- Q.7 Torque Control in Orthodontics. (07)

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M.D.S. Orthodontics & Dentofacial Orthopedics : SUMMER - 2019
SUBJECT: PAPER – II: DIAGNOSIS AND TREATMENT PLANNING

Day: Monday
Date: 03/06/2019

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 75

S-2019-4073

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labeled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Discuss the diagnosis and treatment planning of periodontically compromised orthodontics patients. (20)
- Q.2** Formulate your own lateral cephalometric composite analysis for a preadolescent with skeletal vertical dysplasia and justify the same. (20)

Short Essay Questions:

- Q.3** T scan. (07)
- Q.4** Index of Orthodontic Treatment Needs. (IOTN) (07)
- Q.5** Meta- analysis. (07)
- Q.6** Smile Esthetics. (07)
- Q.7** Explain Natural head position (NHP) and Natural head orientation (NHO). (07)

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M.D.S. PART-I (2018 COURSE)
(ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS): SUMMER-2019
SUBJECT: BASIC SCIENCES

Day: Friday
Date: 28/06/2019

S-2019-4088-D

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 100

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Draw diagram **WHEREVER** necessary.

- | | | |
|------|--|------|
| Q.1 | Write a note on: Role Prostaglandins in Orthodontic tooth movement. | (10) |
| Q.2 | Discuss developmental anomalies occurring due to 1 st branchial arch. | (10) |
| Q.3 | Discuss post-natal growth of nose. | (10) |
| Q.4 | Write a note on: Esthetic archwires. | (10) |
| Q.5 | Discuss genetically controlled malocclusions. | (10) |
| Q.6 | Write note on test of significance. | (10) |
| Q.7 | Discuss the evolution of teeth. | (10) |
| Q.8 | Facial indices in assessment of arch form. | (10) |
| Q.9 | Sterilization in Orthodontics. | (10) |
| Q.10 | Write a note on: Twin studies. | (10) |

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M.D.S. Orthodontics & Dentofacial Orthopedics : SUMMER - 2019
SUBJECT: PAPER – IV: ESSAY

Day: Saturday
Date: 08/06/2019

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 75

S-2019-4075

N.B.:

- 1) Draw neat labeled diagrams **WHEREVER** necessary.

Write an Essay on:

1 × 75= 75 marks

Advances in Treating Skeletal Discrepancies only with Orthodontics.

OR

Aligners in Orthodontics.

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080619-m-dental-pune

M.D.S. Orthodontics & Dentofacial Orthopedics : SUMMER - 2019
SUBJECT: PAPER – I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY
GENETICS PHYSICAL ANTHROPOLOGY & DENTAL MATERIALS

Day: Saturday
Date: 01/06/2019

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 75

S-2019-4072

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labeled diagrams **WHEREVER** necessary.

Long Essay Questions:

Q.1 Discuss NiTi wires. (20)

Q.2 Discuss the role of neural crest cells in growth of the human face. (20)

Short Essay Questions:

Q.3 Tests of significance. (07)

Q.4 Importance of nutrition in orthodontics. (07)

Q.5 Name the syndromes associated with supernumerary teeth and discuss the features of one these syndromes. (07)

Q.6 Enlow's V principle. (07)

Q.7 Stem cells and their significance. (07)

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M.D.S. PART-I (2018 COURSE)
(ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS): SUMMER 2020
SUBJECT: BASIC SCIENCES

Day: Friday
Date: 11-9-2020

Time: 9-00 A.M. To 12.00
Max. Marks: 100 P.M.

S-2020-20247

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Draw diagram **WHEREVER** necessary.

- | | | |
|------|--|------|
| Q.1 | Discuss Endochondral Vs Intramembranous ossification. | (10) |
| Q.2 | Role of nutrition in development of face and occlusion. | (10) |
| Q.3 | Write a note on: Homeo box gene. | (10) |
| Q.4 | Discuss in detail muscle functions and malocclusion. | (10) |
| Q.5 | Hypersensitivity reactions in relation to Orthodontics. | (10) |
| Q.6 | Prenatal development of tongue and maturation of oral function. | (10) |
| Q.7 | Write a note on: Randomised clinical trial. | (10) |
| Q.8 | Discuss anatomical limitations of Orthodontic treatment. | (10) |
| Q.9 | Write a note on: Evolution of human condyle. | (10) |
| Q.10 | Enumerate different generations of bonding system and write a note on self-etch and moisture insensitive primer. | (10) |

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M. D. S. (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) : SUMMER - 2020
SUBJECT : PAPER - I : APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY
GENETICS PHYSICAL ANTHROPOLOGY AND DENTAL MATERIALS

Day : Thursday
Date : 3-9-2020

Time : 9-00 A.M. To 12-00 P.M
Max. Marks : 75

S-2020-7392

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q. 1 Describe the role of nutrition and hormones in growth and development. (20)
- Q. 2 Discuss in detail the development of hard palate and enumerate the pathophysiology in cleft palate patients. (20)

Short Essay Questions:

- Q. 3 Infection control during orthodontic treatment. (07)
- Q. 4 Hyalinization. (07)
- Q. 5 Haemophilia and its implications in orthodontics. (07)
- Q. 6 Oedipus Complex. (07)
- Q. 7 Primers used in orthodontics. (07)

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M. D. S. (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) : SUMMER – 2020
SUBJECT : PAPER – II : DIAGNOSIS AND TREATMENT PLANNING

Day : Saturday
Date : 5-9-2020

Time : 9:00 A.M. To 12:00 P.M.
Max. Marks : 75

S-2020-7393

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q. 1 Discuss the management of physically and mentally handicapped child in orthodontics. (20)
- Q. 2 Discuss in detail Smile Esthetics. (20)

Short Essay Questions:

- Q. 3 Orthodontic splints in the treatment of TMJ problems. (07)
- Q. 4 Pitch, roll and yaw. (07)
- Q. 5 Progressive torque. (07)
- Q. 6 Etiopathogenesis of developing mandibular asymmetry. (07)
- Q. 7 Enlow's counterpart analysis. (07)

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M. D. S. (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) : SUMMER - 2020
SUBJECT : PAPER - III : CLINICAL ORTHODONTICS AND MECHANOTHERAPY

Day : Monday
Date : 7.9.2020

Time : 9-00 A.M to 12-00 P.M
Max. Marks : 75

S-2020-7394

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q. 1 Classify Fixed Functional Appliances and discuss in detail the recent trends of the same. (20)
- Q. 2 Discuss in detail about finishing and detailing. (20)

Short Essay Questions:

- Q. 3 SARPE. (07)
- Q. 4 Headgear and its Biomechanics. (07)
- Q. 5 Continuous vs Segmental Mechanics. (07)
- Q. 6 Management of Gummy Smile. (07)
- Q. 7 Accelerated Orthodontics. (07)

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M. D. S. (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) : SUMMER – 2020
SUBJECT : PAPER – IV : ESSAY

Day : Wednesday
Date : 9-9-2020
Time : 9-00 A.M. To 12-00 P.M.
Max. Marks : 75
S-2020-7395

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

Q. 1 Discuss in detail Controversies in orthodontics. (75)

OR

Discuss in detail Self ligating brackets. (75)

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090920-m-dch-pune

W

M.D.S. Part-I (2018 Course) (Orthodontics & Dentofacial Orthopedics) : Summer – 2021

Subject: Basic Sciences

Day: Monday
Date: 06-09-2021

Time 09:00 AM-12:00 PM
Max. Marks: 100

S-20247-2021

N. B.

- 1) All questions are **COMPULSORY** and carry **EQUAL** marks.
- 2) Draw neat labeled diagrams **WHEREVER** necessary.

-
- Q. 1 Write note on recent advances in Orthodontic Materials
 - Q. 2 Calcium metabolism and its significance in Orthodontics
 - Q. 3 Discuss the management of Hemophilic patient
 - Q. 4 Infection control in Orthodontic office
 - Q. 5 Write a note on Paired T test
 - Q. 6 Role of neural crest cell in human face
 - Q. 7 Discuss in detail development changes of the soft tissue of the face
 - Q. 8 Write a note on Nasomaxillary complex
 - Q. 9 What are Growth hormones and their effect on craniofacial growth
 - Q. 10 Significance of Lateral pterygoid muscle in orthodontics

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M. D. S. PART-II (2018 COURSE)
(ORTHODONTICS & DENTOFACIAL ORTHOPEDICS): SUMMER-- 2022
SUBJECT: PAPER-I: ORTHODONTIC HISTORY, CONCEPTS OF OCCLUSION AND
ESTHETICS, CHILD AND ADULT PSYCHOLOGY, ETIOLOGY AND
CLASSIFICATION OF MALOCCLUSION, DENTOFACIAL ANOMALIES,
DIAGNOSTIC PROCEDURES AND TREATMENT PLANNING IN ORTHODONTICS,
PRACTICE MANAGEMENT IN ORTHODONTIC

Day : Saturday

Time : 09:00 AM-12:00 PM

Date : 3/9/2022

S-20248-2022

Max. Marks : 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

Long Essay Questions:

- Q.1** Discuss the etiology of cleft lip and palate. Describe the various orthodontics procedures carried out in the management of cleft lip and palate. (25)
- Q.2** Methods of assessing facial asymmetry. (25)

Short Essay Questions:

- Q.3** Discuss the role of Splint in Temporomandibular Joint (TMJ) problems. (10)
- Q.4** Discuss self-correcting malocclusions. (10)
- Q.5** Diagnosis and management of Bolton's discrepancy. (10)
- Q.6** Discuss various parameters in lip analysis. (10)
- Q.7** Role of Growth spurts in orthodontic treatment planning. (10)

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M. D. S. PART-II (2018 COURSE)
(ORTHODONTICS & DENTOFACIAL ORTHOPEDICS): SUMMER- 2022
SUBJECT: PAPER-II: CLINICAL ORTHODONTICS

Day : Monday
Date : 5/9/2022

S-20249-2022

Time : 09:00 AM-12:00 PM
Max. Marks : 100

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
-

Long Essay Questions:

- Q.1** Write the factors to be considered in finishing and detailing. (25)
- Q.2** Discuss Mini-implants as an anchorage in orthodontics. (25)

Short Essay Questions:

- Q.3** Versatility of the MBT Bracket system. (10)
- Q.4** Short note on: Class-II and Class-III elastics. (10)
- Q.5** Short note on: Accelerated orthodontics. (10)
- Q.6** Discuss the role of friction in orthodontics. (10)
- Q.7** Explain: Anchorage control in lingual orthodontics. (10)

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M. D. S. PART-II (2018 COURSE)
(ORTHODONTICS & DENTOFACIAL ORTHOPEDICS): SUMMER- - 2022
SUBJECT: PAPER-III: DESCRIPTIVE AND ANALYSING TYPE QUESTION

Day : Wednesday

Time : 09:00 AM-12:00 PM

Date : 7/9/2022

S-20250-2022

Max. Marks : 100

N.B.:

- 1) Answer **ANY TWO** of the following
- 2) Draw neat and labelled diagrams **WHEREVER** necessary.

- | | | |
|-----|---|------|
| Q.1 | Aligners in Orthodontics. | (50) |
| Q.2 | Extraction Vs Non-Extraction Orthodontics treatment. | (50) |
| Q.3 | What is systematic Review, Meta-Analysis and Randomized Clinical Trial (RCT)? Discuss their essentiality and Methodology. | (50) |

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