

Seat No.: _____

PRN _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. 3rd Year (Part-II) Paper II – EXAMINATION – MAY – JULY 2023

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 28/06/2023

Subject Code: 2DS2050202

Subject Name: Paper II

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

- | | | |
|-----|--|----|
| Q.1 | Write in details SLB vs contemporary PEA brackets | 25 |
| Q.2 | Mandibular advancement appliances with special emphasis on Fixed Functional Appliances | 25 |

Answer following Short Questions

- | | | |
|-----|--|----|
| Q.3 | Early vs late treatment | 10 |
| Q.4 | Bite opening with Begg's appliance | 10 |
| Q.5 | Canine retraction using frictionless mechanics | 10 |
| Q.6 | Open bite Differential Diagnosis | 10 |
| Q.7 | Baker's anchorage | 10 |

SPU-57347

SPU-57347

Seat No.:

PRN

Narsinhbhai Patel Dental college & Hospital, Visnagar
M.D.S. – Part-II – EXAMINATION – 2023

Specialization: ORTHODONTICS

Date:00/00/2023

Subject Code: 2DS2050203

Subject Name: Paper-III

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Essay Questions (Any Two out of Three)

100 Marks

50

Q.1 Orthodontic Education in India

50

Q.2 Future Orthodontics- Can you foretell.

50

Q.3 Discuss the conceptual changes in Treatment Planning and techniques used in Orthodontics.

Seat No.: _____

PRN _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – Part-II – EXAMINATION – JULY - SEPT 2022

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 07/07/2022

Subject Code: 2DS2050203

Subject Name: Paper III

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Essay Questions (Any Two out of Three)

100 Marks

Q.1 Surgical Orthodontics

50

Q.2 Roth Vs MBT

50

Q.3 Accelerated Orthodontics

50

Seat No.: _____

PRN _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – Part-II – EXAMINATION – JULY - SEPT 2022

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 05/07/2022

Subject Code: 2DS2050202

Subject Name: Paper II

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

- Q.1 Differentiate skeletal and Dental Deep Bite. Write in details about the various treatment methods to correct Deep Bite in contemporary perspective. 25
- Q.2 Write in detail about Orthodontist's role in treating cleft lip and palate. 25

Answer following Short Questions

- Q.3 Clear Aligners 10
- Q.4 Adult Orthodontics 10
- Q.5 Retention and Relapse 10
- Q.6 Self-ligating Bracket system 10
- Q.7 Infra zygomatic Implants 10

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – 3rd Year Part-II – EXAMINATION, July - September 2021

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 2/7/ 2021

Subject Code: 2DS2050203

Subject Name: Paper- III

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt any TWO questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Essay Questions (Any Two out of Three) 100 Marks

- | | |
|--|-----------|
| Q.1 Recent trends in maxillary expansion | 50 |
| Q.2 Limitation and Controversies in Orthodontics | 50 |
| Q.3 Diagnosis and Treatment of facial and dental asymmetries. | 50 |

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – 3rd Year Part-II – EXAMINATION, July - September 2021

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 28/6/ 2021

Subject Code: 2DS2050201

Subject Name: Paper- I

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

- Q.1** Discuss etiology, diagnosis and treatment planning of class II malocclusion. **25**
- Q.2** Describe diagnostic and treatment planning and management of deep bite in orthodontics. **25**

Answer following Short Questions

- Q.3** Methods of localizing impacted teeth. **10**
- Q.4** Root resorption in Orthodontics **10**
- Q.5** Airway assessment in Orthodontics **10**
- Q.6** Extraction vs Expansion **10**
- Q.7** Role of Visual treatment objective in diagnosis and treatment planning **10**

SPU-76837

SPU-76837

Mock examination

3rd Year MDS (2018-2021)

Department of Orthodontics and Dentofacial Orthopedics

Part II paper I,

Maximum marks 100

Duration 3 hrs

Attempt all questions and draw diagrams where necessary

25 marks each

Long Essay

Q1. Write in detail about classification of cleft lip and palate.

Q2 .Write in detail about behavior management and behavior modification methods .

Short Essay

10 marks each

Q3. Write in detail about the twin studies.

Q4. Write about buccinators mechanism.

Q5. Write about functional occlusion.

Q6. Write about mouth habit.

Q7. CVMI

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – 3rd Year – EXAMINATION – JULY-AUGUST-2020

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 24/08/2020

Subject Code: 1DS2050104

Subject Name: Paper-IV

Time: 3 Hrs

Total Marks: 75

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Essay Questions (One out of Two)

75 Marks

Q.1 Scope of Interdisciplinary Orthodontics

Q.2 Aligners as a challenge to fixed orthodontic treatment modalities.

SPU-97960

SPU-97960

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – 3rd Year – EXAMINATION – JULY-AUGUST-2020

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 21/08/2020

Subject Code: IDS2050103

Subject Name: Paper-III

Time: 3 Hrs

Total Marks: 75

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

- | | |
|---|----|
| Q.1 Management of COVID patient in Orthodontic office | 20 |
| Q.2 Management of developing Cl III Malocclusion | 20 |

Answer following Short Questions

- | | |
|---|---|
| Q.3 Essix retainer | 7 |
| Q.4 Distraction osteogenesis in management of cleft lip/palate patient case | 7 |
| Q.5 Genioplasty | 7 |
| Q.6 TAD, Adjunctive anchorage | 7 |
| Q.7 Cu-NiTi wires, its uses and biomechanics | 7 |

SPU-32102

SPU-32102

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. - 3rd Year - EXAMINATION - JULY-AUGUST-2020

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 19/08/2020

Subject Code: 1DS2050102

Subject Name: Paper-II

Time: 3 Hrs

Total Marks: 75

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

- Q.1** CBCT, as a diagnostic aid. 20
- Q.2** Digital Orthodontics 20

Answer following Short Questions

- Q.3** Growth spurts and its diagnosis for importance in treatment planning. 7
- Q.4** Sleep Apnoea 7
- Q.5** Management of pseudo Cl III patient 7
- Q.6** Treatment planning of an orthognathic case 7
- Q.7** Interceptive Orthodontics. 7

SPU-73792

SPU-73792

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – 3rd Year – EXAMINATION – JULY-AUGUST-2020

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 17/08/2020

Subject Code: IDS2050101

Subject Name: Paper-I

Time: 3 Hrs

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Total Marks: 75

Answer following Long Questions

- Q.1** Anatomy of the growth of maxilla and its clinical significance 20
in orthodontic treatment.
- Q.2** Enumerate muscle of mastication and its method of clinical 20
examination for applied knowledge in orthodontic diagnosis
and treatment planning.

Answer following Short Questions

- Q.3** Growth hormone
- Q.4** Orthodontic tooth movement
- Q.5** T-test
- Q.6** Management of abnormal swallowing
- Q.7** Ceramic brackets.

SPU-47567

SPU-47567

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. - 3rd Year - EXAMINATION - JUNE-JULY 2019

Specialization: Orthodontics & Dentofacial orthopedics

Date: 08/06/ 2019

Subject Code: 1DS2050104

Subject Name: Paper IV (Essay)

Total Marks: 75

Time: 3 hours

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer Essay Questions (One out of Two)

75 Marks

- Q.1** Speed mechanism for orthodontic treatment and its pros and cons
- Q.2** Digitalization in orthodontic treatment planning

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. - 3rd Year - EXAMINATION - JUNE-JULY 2019

Specialization: Orthodontics & Dentofacial orthopedics

Date: 06/06/2019

Subject Code: 1DS2050103

Subject Name: Paper III

Time: 3 hours

Total Marks: 75

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

Q.1 Give your inputs in treatment of a child with unilateral cleft lip & palate from birth till adolescence **20**

Q.2 Describe various options in the management of gummy smile in detail **20**

Answer following Short Questions

Q.3 Segmental v/s continuous arch mechanics

Q.4 PendEx appliance **7**

Q.5 Finishing & detailing of occlusion **7**

Q.6 Autotransplantation **7**

Q.7 Principals of retention **7**

SPU-72097

SPU-72097

Sent No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. - 3rd Year - EXAMINATION - JUNE-JULY 2019

Specialization: Orthodontics & Dentofacial orthopedics

Date: 03/06/2019

Subject Code: IDS2050102

Subject Name: Paper II

Time: 3 hours

Total Marks: 75

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

Q.1 Describe in detail the psychological theory of Erik Erikson & its role in orthodontic treatment planning **20**

Q.2 Describe in detail the Cephalometric evaluation of vertical growers **20**

Answer following Short Questions

Q.3 Pterygoid reflex

Q.4 Mandibular growth rotations

Q.5 Role of third molars in orthodontic treatment

Q.6 Steiner sticks

Q.7 Components of balanced smile

20

20

7

7

7

7

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. -- 3rd Year – EXAMINATION JUNE-JULY 2019

Specialization: Orthodontics & Dentofacial orthopedics

Date: 01/06/2019

Subject Code: 1DS2050101

Subject Name: Applied Basic Sciences, Paper I

Time: 3 hours

Total Marks: 75

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

- Q.1** Describe anatomical details of mandible along with its development and age changes & its role in orthodontic treatment planning **20**
- Q.2** What are the limitations of orthodontic treatment? Describe the role of genetics as a limiting factor **20**

Answer following Short Questions

- Q.3** Soldering and welding **7**
- Q.4** Systemic review **7**
- Q.5** Enamel etching **7**
- Q.6** Digital v/s conventional impressions **7**
- Q.7** Esthetic orthodontic appliances **7**

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – Part (1) – EXAMINATION – NOV/DEC 2019

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 11/12/ 2019

Subject Code: 2DS2050101

Subject Name: APPLIED BASIC SCIENCES, PAPER-I

Time: 3 HRS.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following questions

- Q.1** Define 'Freeway space' and mention its importance in orthodontics. **10**
- Q.2** Define 'Wolff's law of transformation of bone'. Mention in brief its role in development of skull bones. **10**
- Q.3** What do you understand by the term 'normal occlusion'? Discuss important factors involved in the process of its achievement. **10**
- Q.4** Discuss the physiology of infantile and adult swallowing pattern. **10**
- Q.5** Describe the desired physical properties that an ideal archwire material must possess. **10**
- Q.6** Describe tests of significance used in bio-statistics to analyze qualitative and quantitative data. **10**
- Q.7** Describe in brief "Growth trends" and their influence on human face. **10**
- Q.8** What is Gomphosis? Describe morphology of healthy periodontium. **10**
- Q.9** Describe in brief role of "endocrines" and "vitamins" in development and maintenance good and healthy cranio-facial-oral structures. **10**
- Q.10** Discuss various sterilizing and dis-infection procedures in orthodontics. **10**

MDS Mock Examination (Feb – March 2020)

3rd Year MDS (Batch 2017-2020)

Department of Orthodontic and Dentofacial Orthopedics

Paper III

Time: 3 hours

Total Marks 75

Instructions:

1. Attempt all questions
2. Make diagram wherever necessary

Answer following long questions

20 marks each

Q.1 Describe in detail about the bite opening mechanics used in MBT.

Q.2 Describe the treatment modalities used for correction of skeletal class III malocclusion.

Answer the Following Short Questions

7 marks each

Q.3 invisalign

Q.4 distalization for space gaining

Q.5 properties of orthodontic wire

Q.6 closing loops

Q.7 corticotomy for accelerated orthodontics

MDS Mock Examination (Feb – March 2020)

3rd Year MDS (Batch 2017-2020)

Department of Orthodontic and Dentofacial Orthopedics

Paper IV

Time: 3 hours

Total Marks 75

Instructions:

1. Attempt any one question
2. Make diagram wherever necessary

Answer following long questions

75 marks

Q.1 Describe Dentofacial Orthopedics

Q.2 Describe the use of implants in treatment of orthodontic problems.

MDS Mock Examination (Feb – March 2020)

3rd Year MDS (Batch 2017-2020)

Department of Orthodontic and Dentofacial Orthopedics

Paper II

Time: 3 hours

Total Marks 75

Instructions:

1. Attempt all questions
2. Make diagram wherever necessary

Answer following long questions

20 marks each

Q.1 Describe deleterious oral habits which lead to the development of malocclusion.

Q.2 Describe in detail about Angels classification of malocclusion and its modification.

Answer the Following Short Questions

7 marks each

Q.3 Poor man's cephalogram

Q.4 Andrews six keys of occlusion

Q.5 bone remodeling during orthodontic tooth movement

Q.6 Reciprocal anchorage

Q.7 Goslon yardstick

MDS Mock Examination (Feb – March 2020)

3rd Year MDS (Batch 2017-2020)

Department of Orthodontic and Dentofacial Orthopedics

Paper I

Applied basic sciences

Time: 3 hours

Total marks 75

Instructions:

1. Attempt all questions
2. Make diagram wherever necessary

Answer following long questions

20 marks each

Q.1 Describe in detail the post natal development of maxilla and add a note on intramembranous ossification.

Q.2 Describe in detail about the functional matrix theory with emphasis on revisited concept.

Answer the Following Short Questions

7 marks each

Q.3 Hyperthyroidism

Q.4 Amelogenesis imperfect

Q.5 Longitudinal growth studies

Q.6 Vital stains

Q.7 Test of significance

MDS Mock Examination (March 2019)

June /July- 2018

Orthodontics and Dentofacial Orthopaedics

PAPER- I

(Applied Basic Sciences)

Your answer should be specific to the question asked

Draw neat labeled diagrams where necessary

Attempt all questions

Max. Time: 3hr

(Total Marks: 75)

Long Essay

2 X 2 = 40

1. Describe in detail about the facial muscles and its importance in orthodontics.
2. Describe the servosystem theory.

Short Essay

5 x 7 = 35

- 1) Parametric and Nonparametric test
- 2) Cleft lip and palate classification
- 3) HANT
- 4) Anomalies of teeth
- 5) History of orthodontics

MDS Mock Examination (March 2019)
Orthodontics and Dentofacial Orthopaedics

PAPER- IV

(Essay)

Your answer should be specific to the question asked

Draw neat labeled diagrams where necessary

(Total Marks: 75)

Max. Time: 3hr

75

Write essay on the following subject; (any one).

1. Frictionless mechanics.
2. Write in detail about the retention planning.

MDS Mock Examination (March 2019)
Orthodontics and Dentofacial Orthopaedics
PAPER- III

(Clinical Orthodontics and Mechanotherapy)

Your answer should be specific to the question asked

Draw neat labeled diagrams where necessary

Attempt all questions

Max. Time: 3hr

(Total Marks: 75)

Long essay

2 X 20=40

- 1 Discuss the changing trends in tip and torque from edgewise appliance to MBT appliance.
- 2 Discuss in detail about Vertical maxillary excess.

Short notes

5 x 7= 35

- 1 Role of orthodontist in upper airway sleep disorder
- 2 Prostaglandins and orthodontic tooth movement
- 3 Loops
- 4 Tipped edge appliance
- 5 Third molar dilemma in orthodontics.

MDS Mock Examination (March 2019)
Orthodontics and Dentofacial Orthopaedics

PAPER- II

(Diagnosis and Treatment Planning)

Your answer should be specific to the question asked

Draw neat labeled diagrams where necessary

Attempt all questions

Max. Time: 3hr

(Total Marks: 75)

Long essay

2x20=40

1. Describe in detail about the mouth breathing habit and its management.
2. Write in detail about functional occlusion.

Short essay

5 x 7= 35

- 1) Regional acceleratory phenomenon
- 2) Classification of cleft lip and palate
- 3) Frontal analysis
- 4) Behavior management
- 5) Andrews six keys of occlusion

Part I**MOCK MDS Examination (2019)****Orthodontics and Dentofacial Orthopaedics****PAPER- I****(APPLIED BASIC SCIENCES)**

Your answer should be specific to the question asked

Draw neat labeled diagrams where necessary

Attempt all questions

Max. Time: 3hr

(Total Marks: 100)

Long questions

10x10=100

1. Describe in detail about growth of Mandible.
2. Discuss the maturation of Orofacial musculature and its influence on the development of the craniofacial region.
3. Condylar response to Orthodontic treatment.
4. Neural crest cells.
5. Power of the study and sample size.
6. Stem cell and their role in orthodontics.
7. Dynamic occlusion.
8. Root resorption.
9. Malocclusion Indices.
10. Equilibrium theory.

MDS Mock Examination (April 2018)

Time: three hours

Max. Marks: 75 Marks

Orthodontics

Paper III

Your answers should be specific to the questions asked

Draw neat and labeled diagrams

Answer all questions

LONG ESSAYS

2 x20= 40 marks

1. Write in detail about cephalometric superimpositions.
2. Write in detail about frictionless mechanics.

SHORT ESSAYS

5 x7= 35 marks

1. Tweed Merrifield technique.
2. FR2
3. OSA
4. PA view
5. Alexander discipline

MDS Mock Examination (April 2018)

Time: three hours

Max. Marks: 75 Marks

Orthodontics

Paper III

Your answers should be specific to the questions asked

Draw neat and labeled diagrams

Answer all questions

LONG ESSAYS

2 x20= 40 marks

1. Write in detail about cephalometric superimpositions.
2. Write in detail about frictionless mechanics.

SHORT ESSAYS

5 x7= 35 marks

1. Tweed Merrifield technique.
2. FR2
3. OSA
4. PA view
5. Alexander discipline

MDS Mock Examination (April 2018)

Time: three hours

Max. Marks: 75 Marks

Orthodontics

Paper II

Your answers should be specific to the questions asked

Draw neat and labeled diagrams

Answer all questions

LONG ESSAYS

2 x20= 40 marks

1. Write in detail about the essential and supplemental diagnostic aids.
2. Write in detail about the behavior management of a child in orthodontic clinic.

SHORT ESSAYS

5 x7= 35 marks

1. Principles of functional appliances.
2. CBCT
3. Kessling diagnostic setup
4. Advance sync
5. Finite element study

MDS Mock Examination (April 2018)

Time: three hours

Max. Marks: 75 Marks

Orthodontics

Paper II

Your answers should be specific to the questions asked

Draw neat and labeled diagrams

Answer all questions

LONG ESSAYS

2 x20= 40 marks

1. Write in detail about the essential and supplemental diagnostic aids.
2. Write in detail about the behavior management of a child in orthodontic clinic.

SHORT ESSAYS

5 x7= 35 marks

1. Principles of functional appliances.
2. CBCT
3. Kessling diagnostic setup
4. Advance sync
5. Finite element study

MDS Mock Examination (April 2018)

Time: three hours

Max. Marks: 75 Marks

Orthodontics

Applied anatomy, physiology, pathology and pharmacology

Paper I

Your answers should be specific to the questions asked

Draw neat and labeled diagrams

Answer all questions

LONG ESSAYS

2 x20= 40 marks

1. Describe anatomy of TMJ with its application in orthodontics
2. Write in detail about randomized clinical trials

SHORT ESSAYS

5 x7= 35 marks

1. Twin studies
2. Optiflex wires
3. NSAID
4. Attritional occlusion
5. Development of palate

MDS Mock Examination (April 2018)

Time: three hours

Max. Marks: 75 Marks

Orthodontics

Applied anatomy, physiology, pathology and pharmacology

Paper I

Your answers should be specific to the questions asked

Draw neat and labeled diagrams

Answer all questions

LONG ESSAYS

2 x20= 40 marks

1. Describe anatomy of TMJ with its application in orthodontics
2. Write in detail about randomized clinical trials

SHORT ESSAYS

5 x7= 35 marks

1. Twin studies
2. Optiflex wires
3. NSAID
4. Attritional occlusion
5. Development of palate

MDS Mock Examination (April 2018)

Time: three hours

Max. Marks: 75 Marks

Orthodontics

Paper IV

Your answers should be specific to the questions asked

Draw neat and labeled diagrams

Answer any one question

LONG ESSAYS

1 x75= 75 marks

1. Write in detail about skeletal anchorage system.

OR

2. Write in detail about retention in orthodontics.

MDS Mock Examination (April 2018)

Time: three hours

Max. Marks: 75 Marks

Orthodontics

Paper IV

Your answers should be specific to the questions asked

Draw neat and labeled diagrams

Answer any one question

LONG ESSAYS

1 x75= 75 marks

1. Write in detail about skeletal anchorage system.

OR

2. Write in detail about retention in orthodontics.

Ortho - (7)

M.D.S examination June/July 2017

Orthodontics : paper IV (Essay)

Time: 3 Hours

Total Marks : 75

Write an Essay on any one of the following Questions:

75

1. Need based Orthodontic training in Postgraduates.
2. Adult Orthodontics.

⑦ Ortho

M.D.S examination June/July 2017

Orthodontics : paper III (Clinical Orthodontics & Mechanotherapy)

Time: 3 Hours

Total Marks : 75

Long Essay:

2X20=40

1. Friction in Orthodontics:
2. Critically evaluate the various torque prescriptions in different straight wire appliances.

Short Essay:

5X7=35

1. TPA.
2. NiTi Palatal Expanders..
3. Direct V/S Indirect Bonding.
4. Delaire's Facemask.
5. Margolis ACCO Appliances.

Ostho - (7)

M.D.S examination June/July 2017

Orthodontics : paper II (Diagnosis & Treatment Planning)

Time: 3 Hours

Total Marks : 75

Long Essay:

2X20=40

1. Discuss the treatment of children with excessive face height.
2. Discuss the current status & importance of soft tissue facial analysis.

Short Essay:

5X7=35

1. Kesling's Setup
2. Keys to Retention.
3. Natural Head Position.
4. Interceptive Orthodontics.
5. Limitations of ANB Angle.



M.D.S examination June/July 2017

Orthodontics : paper I (Applied Basic Sciences)

Time: 3 Hours

Total Marks : 75

Long Essay:

2X20=40

1. Discuss the recent works on the role of oral & Facial musculature on development of Occlusion.
2. Discuss types of malocclusion influenced by Genetics.

Short Essay:

5X7=35

1. Evolution & Future of Orthodontic wires.
2. GIC
3. Bauschinger Effect
4. Soldering & Welding
5. Cleft lip & Palate.



ME-14132 Seat No. _____

M. D. S. Examination

June / July - 2018

**Orthodontics & Dentofacial
Orthopendics : Paper - IV**

(Essay)

Time : 3 Hours]

[Total Marks : 75

Instructions : (1) Your answer should be specific to the question asked.

(2) Draw neat and labelled diagram wherever necessary.

Write an essay on any **one** of the following **1×75=75**
question :

1 Recent advances in Orthodontic Materials.

OR

2 Non surgical correction of Skeletal discrepancies.



MD-14123

Seat No. _____

M. D. S. Examination

June / July - 2018

**Orthodontics & Dentofacial
Orthopedics : Paper - III**

(Clinical Orthodontics & Mechanotherapy)

Time : 3 Hours]

[Total Marks : 75

- Instructions :** (1) Your answers should be specific to the question asked. Draw neat and labelled diagrams wherever necessary.
- (2) Attempt all questions.

Long Essays :

2×20=40

- 1 Briefly discuss the treatment protocol from birth to adulthood of a child born with cleft lip and palate.
- 2 Describe various intrusion mechanics used in Orthodontics. Add a note on Cetlin intrusion arch.

Short Essays :

5×7=35

- 3 Molar distalization.
- 4 Magnets in orthodontics.
- 5 Alexander Discipline.
- 6 Fixed functional appliances.
- 7 Accelerated Orthodontics.



MB-14114 Seat No. _____

M. D. S. Examination

June / July - 2018

Orthodontics : Paper - II

(Diagnosis & Treatment Planning)

Time : 3 Hours]

[Total Marks : 75

1 Long Essay : 2×20=40

- (1) Evolution of TMJ. Briefly describe various imaging techniques and its application in TMJ.
- (2) Define and classify habits. Write in detail clinical features of adenoid faces and their management.

2 Short Essay : 5×7=35

- (3) 'C' - Axis
 - (4) Shortcomings of ANB
 - (5) VTO
 - (6) Rickett's four step analysis
 - (7) ALARA Principle.
-



M-14105

Seat No. _____

M. D. S. Examination
June / July - 2018
Orthodontics : Paper - I
(Applied Basic Sciences)

Time : 3 Hours]

[Total Marks : 75

Long essays :

2×20=40

- (1) Briefly outline the molecular basis and genomics of hereditary of the craniofacial region. Add a note on the inheritance types facial deformities and malocclusion.
- (2) Discuss the hard and soft tissue basis of mandibular growth rotations. Add a note on the impact of functional parameters in determining facial morphology.

Short essays :

5×7=35

- (3) Thyroid Hormone and the human dentition.
 - (4) Actin and myosin
 - (5) Prostaglandin and Orthodontic tooth movement.
 - (6) Trisomy 21
 - (7) Retrodiscal pad.
-



KU-3082

Seat No. _____

M. D. S. Examination

June / July - 2017

Orthodontics : Paper - IV

(Essay)

Time : 3 Hours]

[Total Marks : 75

Instructions :

- (1) Your answers should be specific to the questions asked.
- (2) Draw neat, labelled diagrams whenever necessary.

Write an essay on the following subjects : (any one) **75**

- 1 3D CBCT in Orthodontics.
- 2 Recent advances in biology of tooth movement and describe in detail about Orthodontics.



KU-3073

Seat No. _____

M. D. S. Examination

June / July - 2017

Orthodontics : Paper - III

(Clinical Orthodontics and Mechanotherapy)

Time : 3 Hours]

[Total Marks : 75

1 Long Essays : **2×20=40**

(1) Discuss the methods of canine retraction in Orthodontics.

(2) Discuss the problems of borderline cases and their management.

2 Short Essays : **5×7=35**

(1) Heat treatment of orthodontic wires

(2) Lip Bumper

(3) Steiner's treatment plan

(4) Implants in Orthodontics

(5) Apical root resorption consequent to orthodontic treatment.



KU-3064

Seat No. _____

M. D. S. Examination

June / July – 2017

**Orthodontics & Dentofacial
Orthopedics : Paper-II
(Diagnosis & Treatment Planning)**

Time : 3 Hours]

[Total Marks : 75

Instructions :

- (1) Your answers should be specific to the question asked. Draw neat labelled diagrams wherever necessary.
- (2) Attempt all questions.

LONG ESSAY :

2×20=40

- 1 Recent advances in cephalometrics. Explain about superimposition techniques.
- 2 Role of Cone Beam Computed Tomography in Orthodontics.

SHORT ESSAY :

5×7=35

- 1 Visualised treatment objective.
- 2 Sterilization in orthodontics.
- 3 Skeletal maturity indicators.
- 4 Airway in orthodontics.
- 5 Electromyography.

KU-3064]

[90]



KU-3055

Seat No. _____

M. D. S. Examination

June / July - 2017

Orthodontics & Dentofacial Orthopedics :
Paper - I

(Applied Basic Sciences)

Time : 3 Hours]

[Total Marks : 75

- Instructions:** (1) Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.
- (2) Attempt all questions.

Long essay :

2×20=40

- 1 Describe muscles of mastication. Clinical significance of lateral pterygoid muscle in Orthodontics.
- 2 Describe Recent advances in bonding agents.

Short Essay :

5×7=35

- 1 Randomized controlled trial.
- 2 Soldering in orthodontics.
- 3 History of orthodontics.
- 4 Test of significance.
- 5 Twin studies.

KU-3055]

[90]



PG-1302

Seat No. _____

M. D. S. Examination

April / May - 2016

Orthodontics &

Dentofacial Orthopedics : Paper - IV

(Essay)

Time : 3 Hours]

[Total Marks : 75

- Instructions :**
- (1) Your answers should be specific to the questions asked.
 - (2) Draw neat labelled diagrams wherever necessary.

Write an essay on any one of the following questions : **75**

1 Recent Advances in Clear Aligners.

OR

2 Treatment of skeletal class II malocclusions.



PG-1293

Seat No. _____

M. D. S. Examination

April / May - 2016

Orthodontics &

Dentofacial Orthopedics : Paper-III
(Clinical Orthodontics & Mechanotherapy)

Time : 3 Hours]

[Total Marks : 75

- Instructions :** (1) Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.
(2) Attempt all questions.

LONG ESSAYS :

2×20=40

- 1 Write about various intrusion mechanics along with anchorage preparation.
- 2 Classify Fixed Functional Appliances. Explain advantages and disadvantages of each.

SHORT ESSAYS

5×7=35

- 3 Implants in Orthodontics.
- 4 Tip Edge Vs MBT Bracket System.
- 5 Tooth coloured arch wires.
- 6 Pendulum Appliance.
- 7 Cetlin Intrusion Arch.



PG-1284

Seat No. _____

M.D.S. Examination

April / May - 2016

Orthodontics & Dentofacial Orthopedics : Paper-II
(Diagnosis & Treatment Planning)

Time : 3 Hours]

[Total Marks : 75

- Instructions :** (1) Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.
(2) Attempt all questions.

LONG ESSAYS :

2×20=40

- 1 Define and Classify Oral habits. Discuss clinical findings and the management of Tongue thrusting habit.
- 2 Recent advances in Diagnosis and Treatment Planning.

SHORT ESSAYS :

5×7=35

- 3 Sterilization in Orthodontics.
- 4 Kesling's Setup.
- 5 Growth Prediction.
- 6 Bolton's Tooth Discrepancy.
- 7 Dental Aesthetic Index.



PG-1275

Seat No. _____

M. D. S. Examination

April / May - 2016

Orthodontics : Paper - I

(Applied Basic Sciences)

Time : 3 Hours]

[Total Marks : 75

LONG ESSAY :

2×20=40

- 1 Discuss growth rotations of the mandible and the clinical implications on diagnosis and treatment planning.
- 2 Describe in detail about the calcium homeostatic in the body.

SHORT ESSAY :

5×7=35

- 3 Down's Syndrome.
- 4 Bis phosphonates and Orthodontics.
- 5 Gene Mapping.
- 6 Cognitive development of a child.
- 7 Randomized controlled trial.



HDE-2322

Seat No. _____

M. D. S. Degree Examination

April / May - 2015

ORTHODONTICS AND DENTOFACIAL

ORTHOPEDECS

PAPER - IV : ESSAY

Time : 3 Hours]

[Total Marks : 75

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary:

Write an essay on any one or the following question.

1×75=75

1 Multidisciplinary orthodontics

OR

2 Lingual orthodontics

HDE-2322]

[90]



HDE-2316 Seat No. _____

M. D. S. Degree Examination

April / May - 2015

**ORTHODONTICS AND DENTOFACIAL
ORTHOPEDICS**

**Clinical Orthodontics And Mechanotherapy
PAPER -III**

Time : 3 Hours]

[Total Marks : 75

Your answers should be specific to the questions asked.

Draw neat, labelled diagram wherever necessary.

Answer all questions.

LONG ESSAYS

2×20=40

- 1 Write in detail about various Headgears used in Orthodontics.
- 2 Discuss your treatment choice of appliance for a patient aged 8 years presenting class —II division 1 malocclusion with positive VTO.

SHORT ESSAYS

7×5=35

- 3 Genioplasty
- 4 Relapse in Orthodontics
- 5 Face Mask Therapy
- 6 Distraction Osteogenesis
- 7 Implants in Orthodontics.



HDE-2310

Seat No. _____

M. D. S. Degree Examination

April / May - 2015

**Orthodontics & Dentofacial Orthopedics
Diagnosis & Treatment Planning : Paper-II**

Time : 3 Hours]

[Total Marks : 75

Your answers should be specific to the questions asked
Draw neat, labelled diagram wherever necessary.
Answer all questions

LONG ESSAYS

2×20=40

- 1 Enumerate skeletal maturity indicators. Describe in detail about cervical vertebrae.
- 2 Define and classify oral habits. Discuss clinical pictures and management of Thumb sucking habit.

SHORT ESSAY

3×7=35

- 3 Pseudo class III
- 4 Management of Tongue thrusting habit
- 5 Supplemental Diagnostic Aids
- 6 Computerized Cephalometric systems
- 7 Sterilization in Orthodontics.

MDS Examination Paper - 1

Subject: Basic Science

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

(Total marks : 75)

Major

(2 × 20 = 40 marks)

Q 1. Write in detail about postnatal growth of maxilla .

Q2 Write in detail about the calcium metabolism in detail .

Short Notes

(5 × 7 = 35 marks)

Q3. Cleft palate classification.

Q4. Attritional Occlusion

Q5. Parametric tests and non parametric test

Q6 Bonding agents

Q7. Muscles of Mastication

NASINHBHAI PATEL DENTAL COLLEGE & HOSPITAL
DEPARTMENT OF ORTHODONTICS & DENTOFACIAL ORTHOPEDICS

MDS-ORTHODONTICS

MOCK EXAMINATION -FEB 2015

PAPER-IV (ESSAY QUESTION)

INSTRUCTIONS : Draw neat Diagram wherever necessary.

Answer ANY ONE Question

LONG ESSAYS

1 ⊗ 100= 100 marks

1. Interdisciplinary approach in orthodontics.

or

2. Treatment of class III malocclusion with skeletal anchorage.

NASINHBHAI PATEL DENTAL COLLEGE & HOSPITAL
DEPARTMENT OF ORTHODONTICS & DENTOFACIAL ORTHOPEDICS

MDS-ORTHODONTICS

MOCK EXAMINATION -FEB 2015

PAPER-III (TREATMENT & MECHANICS)

INSTRUCTIONS : Answer all the questions.

Draw neat Diagram wherever necessary.

LONG ESSAYS

2 ⊗ 20 = 40 marks

- 1. Classify Fixed functional appliances. Explain advantages and Disadvantages along with their anchorage requirements.**
- 2. PEA Vs Refined BEGG's Technique.**

SHORT ESSAYS

5 ⊗ 7 = 35 marks

- 3. M/F Ratio**
- 4. Molar Distalization**
- 5. Intrusion mechanics**
- 6. Wagon –Wheel Effect.**
- 7. Jockey archwires.**

NASINHBHAI PATEL DENTAL COLLEGE & HOSPITAL
DEPARTMENT OF ORTHODONTICS & DENTOFACIAL ORTHOPEDICS

MDS-ORTHODONTICS

MOCK EXAMINATION -FEB 2015

PAPER-II (DIAGNOSIS & TREATMENT PLANNING)

INSTRUCTIONS : Answer all the questions.

Draw neat Diagram wherever necessary.

LONG ESSAYS

2 ⊗ 20 = 40 marks

- 1. Recent advances in Diagnosis & Treatment Planning.**
- 2. Treatment of class II malocclusion**

SHORT ESSAYS

5 ⊗ 7 = 35 marks

- 3. Drawback of ANB angle.**
- 4. Maturity Indicators.**
- 5. Keslings set up.**
- 6. PAR index.**
- 7. Bolton's Tooth discrepancy.**

NASINHBHAI PATEL DENTAL COLLEGE & HOSPITAL
DEPARTMENT OF ORTHODONTICS & DENTOFACIAL ORTHOPEDICS

MDS-ORTHODONTICS

MOCK EXAMINATION -FEB 2015

PAPER-I

(BASIC SCIENCE SUBJECTS, MATERIALS, BIOSTATICS)

INSTRUCTIONS : Answer all the questions.

Draw neat Diagram wherever necessary.

LONG ESSAYS

2 ⊗ 20 = 40 marks

- 1. Explain in detail methods of studying bone growth. Advantages and Disadvantages of each method.**
- 2. Development, Properties, Advantages and Disadvantages of NITI wires.**

SHORT ESSAYS

5 ⊗ 7 = 35 marks

- 3. Meta analysis**
- 4. Role of prostaglandins in tooth movement.**
- 5. Adenoids & Tonsils.**
- 6. Calcium metabolism.**
- 7. Growth of Palate.**

Seat No: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY
M.D.S – PART (1)- EXAMINATION – JULY-AUGUST-2020

Specialization: Orthodontics and Dentofacial Orthopedics **Date:25/08/2020**

Subject Code: 2DS2050101

Subject Name: Applied basic sciences

Time: 3 hours

Instructions:

1. Attempt all questions
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks

Answer Following Questions

	Marks
Q.1 Growth rotation of mandible and its clinical implications in orthodontic diagnosis and treatment planning	10
Q.2 Swallowing and its applied physiology in relation to orthodontic treatment.	10
Q.3 Randomized Clinical trials	10
Q.4 History of Indian Orthodontics	10
Q.5 Temporary anchorage devices. TAD material, its physical properties and ideal requirements.	10
Q.6 Discuss habits as an etiology for malocclusion	10
Q.7 Chronology of eruption of dentition	10
Q.8 Management of patient with Down's Syndrome.	10
Q.9 Dental office management in COVID scenario	10
Q.10 Cleidocranial dysosetosis.	10

Mock examination

3rd Year MDS (2018-2021)

Department of Orthodontics and Dentofacial Orthopedics

Part II paper II

Maximum marks 100
Duration 3 hrs

Attempt all questions and draw diagrams where necessary

Long Essay

25 marks each

Q1. Write in detail about distalization in orthodontics .

Q2 . Write in detail about development of brackets.

Short Essay

10 marks each

Q3. Write about the methods of gaining space.

Q4. RME

Q5. Write about computerized cephalometrics.

Q6. Write about clear aligner technique .

Q7. Write about the principles of Bioprogressive therapy.

Mock examination

3rd Year MDS (2018-2021)

Department of Orthodontics and Dentofacial Orthopedics

Part II paper III

Maximum marks 100
Duration 3 hrs

Attempt any two questions and draw diagrams where necessary

50 marks each

Long Essay

Q1. Write in detail about Anchorage planning in orthodontics.

Q2 . Write in detail about Adult Orthodontics.

Q7. Write about the removable myofunctional appliances.

Seat No.: _____

PR No. _____

SANKALCHAND PATEL UNIVERSITY

M.D.S. – 3rd Year Part-II – EXAMINATION, July - September 2021

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 30/6/ 2021

Subject Code: 2DS2050202

Subject Name: Paper- II

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

Q.1 Discuss the theories of tooth movement and present opinion and concepts on biology of orthodontic tooth movement. **25**

Q.2 Surgery first approach **25**

Answer following Short Questions

Q.3 Obstructive Sleep Apnea. **10**

Q.4 Frictionless mechanics in orthodontics **10**

Q.5 Envelop of Discrepancy **10**

Q.6 Recent trends in Molar Distalization. **10**

Q.7 Current trends of anchorage conservation in orthodontics **10**

Seat No.: _____

PRN _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – Part-II – EXAMINATION – JULY - SEPT 2022

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 02/07/2022

Subject Code: 2DS2050201

Subject Name: Paper I

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

- Q.1 Write in detail about preparation of virtual digital orthodontic models and its advantages over conventional models. 25
- Q.2 Write in detail about diagnostic differentiating parameters between retrognathic and retropositioned mandible. 25

Answer following Short Questions

- Q.3 Micro esthetics 10
- Q.4 Importance of skeletal age determination in Orthodontics 10
- Q.5 Factors effecting stability of micro implant 10
- Q.6 Molecular aspects of Orthodontic tooth movement 10
- Q.7 Importance of Tweets Triangle 10

Seat No: _____

PR No _____

SANKALCHAND PATEL UNIVERSITY

M.D.S – 3rd year - EXAMINATION MOCK EXAM 2023

Specialization: Orthodontics & Dentofacial Orthopedics

Date: 27/03/2023

Subject code: 1DS2050201

Subject name: Diagnosis and treatment planning - paper I

Time: 3 hours

Total marks: 100 marks

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts whenever necessary.
3. Figure to the right indicates full marks.

Answer following Long questions: (50 marks) 25marks each

1. Discuss the psychosocial factors contributing to the body image & dentofacial attractiveness in an individual. Briefly outline the differences in body image perception on an individual with dentofacial deformity compared to a normal individual.
2. Discuss the differential diagnosis of normal, acceptable deviations & abnormal swallowing patterns & the management of abnormal swallowing.

Answer following Short notes: (50 marks) 10 marks each

3. Discuss Coben's proportionate analysis
4. "C" axis
5. Holograms
6. Polygenic inheritance
7. Goshgarian arches

Seat No: _____

PR No _____

SANKALCHAND PATEL UNIVERSITY

M.D.S – 3rd year - EXAMINATION MOCK EXAM 2023

Specialization: Orthodontics & Dentofacial Orthopedics

Date: 28/03/2023

Subject code: 1DS2050202

Subject name: Clinical Orthodontics & Mechanotherapy, paper II

Time: 3 hours

Total marks: 100 marks

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable flowcharts whenever necessary.**
- 3. Figure to the right indicates full marks.**

Answer following Long questions:

(50 marks) 25marks each

1. Write a critique on the refinements in the Begg appliance components & philosophy.
How do these refinements aid in obtaining improved treatment outcome.
2. Discuss critically Angle's concept of "ideal occlusion" & "a full complement of teeth."

Answer following Short notes:

(50 marks) 10 marks each

3. Driftodontics.
4. Bimetric system
5. Eureka spring.
6. Gnathologic positioners
7. Oral physiotherapy

Seat No.: _____

PRN _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. 3rd Year (Part-II) Paper I – EXAMINATION – MAY – JULY 2023

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 26/06/2023

Subject Code: 2DS2050201

Subject Name: Paper I

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Long Questions

- Q.1** Etiology of facial asymmetry and write in detail the essential investigation and how will you apply such diagnostic information for orthodontic correction **25**
- Q.2** Discuss advantages and disadvantages of tooth movements in various orthodontic techniques and discuss the criteria for selection of technique in orthodontic treatment. **25**

Answer following Short Questions

- Q.3** Macro-, Micro- and Mini-esthetics **10**
- Q.4** Golden proportions **10**
- Q.5** Thumb sucking – etiology, psychology and management **10**
- Q.6** Pitch, roll and yaw **10**
- Q.7** E space **10**

Seat No.: _____

PRN _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. – Part (I) – Mock Examination Paper 1

Specialization: Orthodontics and Dentofacial Orthopedics Date: / / 2023

Subject Code: 2DS2050101

Subject Name: Paper - I

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Question Number	Questions (Without Option)	Marks
Q.1	Describe about the anatomy of hand wrist and its clinical significance	10
Q.2	Write in detail about Bonding agents used in orthodontics.	10
Q.3	Write in detail about Latex allergy.	10
Q.4	Write in detail about Study design.	10
Q.5	Hyperthyroidism and its significance in orthodontics.	10
Q.6	Write in detail about Endochondral and intramembranous bone formation.	10
Q.7	Write down in detail about IOTN.	10
Q.8	Write in detail about Solder and flux	10
Q.9	Nasoalveolar Moulding	10
Q.10	Write in detail about Neural crest cells	10

Seat No.: _____

PRN _____

SANKALCHAND PATEL UNIVERSITY

M.D.S. 3rd Year (Part-II) Paper III – EXAMINATION – MAY – JULY 2023

Specialization: Orthodontics and Dentofacial Orthopedics

Date: 30/06/2023

Subject Code: 2DS2050203

Subject Name: Paper III

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following Essay Questions (Any Two out of Three)

100 Marks

Q.1	Skeletal anchorage systems in orthodontics	50
Q.2	Role of orthodontics in management of cleft lip and palate	50
Q.3	Bonding in lingual orthodontics	50

Seat No.: _____

PRN _____

SANKALCHAND PATEL UNIVERSITY
M.D.S. - Part (I) - EXAMINATION - SEPT - DEC 2023

Specialization: Orthodontics and Dentofacial Orthopedics Date: 29/09/2023

Subject Code: 2DS2050101

Subject Name: Paper - I

Time: 3 Hrs.

Total Marks: 100

Instructions:

1. Attempt all questions.
2. Make suitable flowcharts wherever necessary.
3. Figures to the right indicate full marks.

Answer following questions

- | | | |
|------|---|----|
| Q.1 | Describe development of palate and describe cleft lip and palate in detail. | 10 |
| Q.2 | Growth rotation of maxilla and mandible. | 10 |
| Q.3 | Thyroid and Parathyroid hormones and their significance in orthodontics. | 10 |
| Q.4 | Cleidocranial Dysplasia | 10 |
| Q.5 | Future Orthodontic wires | 10 |
| Q.6 | Meta-Analysis | 10 |
| Q.7 | Malnutrition and Orthodontics | 10 |
| Q.8 | Muscles of mastication | 10 |
| Q.9 | PAR Index | 10 |
| Q.10 | Role of orthodontist in early diagnosis of mucormycosis. | 10 |
