

QP Code No 466 NR/D317A01

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-8
MDS DEGREE EXAMINATION – SEPTEMBER 2026

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I, PAPER I
(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Describe the prenatal development of the maxilla and its clinical implications in orthodontics
2. Discuss the physiology of bone remodeling during orthodontic tooth movement
3. Describe the composition, properties and manipulation of orthodontic bonding resins
4. Describe the role of inheritance in the etiology of malocclusion and dentofacial deformities.
5. Describe the structural changes, properties and clinical applications of Shape Memory Alloys.
6. Discuss the cellular mechanism of tissue healing following orthopedic expansion of the mid-palatal suture.
7. Describe the types of variables and errors encountered in statistical analysis of orthodontic research data.
8. Discuss the role of pituitary growth hormone in craniofacial growth and development.
9. Describe the phenomenon of stress- strain relationship and its importance in orthodontic mechanotherapy.
10. Discuss the mechanism of action, indications and side effects of systemic analgesics used for pain management in orthodontic patients.

QP Code 467-NR/D317C011

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – SEPTEMBER 2026

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER I
(New regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Discuss Anchorage in detail from contemporary view
2. Discuss the role of Arnett and COGS analysis in Orthodontic diagnosis and treatment planning.

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. "E-models
4. Epigenetic signals
5. Frankl's behavior rating scale
6. Esthetic parameters for upper incisors
7. Tongue analysis in orthodontics

QP Code 468-NR/D317C012

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – SEPTEMBER 2026

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER II
(Clinical Orthodontics)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Discuss the role of functional appliances in the management of a growing case of class III malocclusion
2. Discuss the generations of lingual brackets and biomechanics of lingual technique

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. "Facemask as a functional therapy
4. Iatrogenic effects of Orthodontic treatment
5. Magnets in Orthodontics
6. Management of canine impaction
7. MARS (Mandibular Advancing repositioning Splint) appliance

Q.P. CODE:469-NR/D317C013

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – SEPTEMBER - 2026

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART -II
PAPER-III

(Descriptive and analyzing type question)
(*New Regulations*)

Time: 3 Hours

Max. Marks: 100

**WRITE ANY TWO LONG ESSAYS OF THE FOLLOWING WITH
LEGIBLE DIAGRAMS**

2x50=100

1. Early orthodontic treatment
2. Begg's mechanotherapy
3. Deep bite.

QP Code No 466 NR

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-8
MDS DEGREE EXAMINATION – SEPTEMBER 2025

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I
PAPER I

(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Discuss post-natal growth of Mandible and its impact on decision making in functional Jaw Orthopedics
2. Drugs and their involvement in Orthodontics tooth movement
3. Discuss bonding agents from orthodontics point of view and describe recent advances
4. Write in details about calcium homoeostasis in the body
5. Hypothyroidism and its relevance in orthodontics
6. Write in detail about Mandibular Nerve and its branches
7. Wolff's law of transformation of bone
8. Tests of significance
9. Enumerate genetic malocclusion and describe the role of heredity and mode of transmission of characteristics
10. Erikson's stages of emotional development

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – NOVEMBER 2025

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER I
(New regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Describe “Long face syndrome” , Discuss a comprehensive method of diagnosis and treatment planning for the same
2. Describe in detail any one fronto facial cephalometric analysis

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. “Cerebral palsy” – Orthodontics implications
4. Attrition occlusion
5. Bolton’s analysis
6. Cervical vertebral maturity indicators
7. Conventional Cephalometry versus 3D diagnosis

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – NOVEMBER 2025

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER II
(Clinical Orthodontics)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Discuss the various molar distillation procedures
2. Discuss in detail- Aligners in orthodontics

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. "Ortho Perio interdisciplinary system
4. Friction mechanics
5. Reverse Orthodontics
6. Evaluation of Ricketts edgewise appliance
7. Discuss the biomechanics in labial versus lingual orthodontics

Q.P. CODE:466

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – NOVEMBER , 2025

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART -II
PAPER-III

(Descriptive and analyzing type question)
(*New Regulations*)

Time: 3 Hours

Max. Marks: 100

**WRITE ANY TWO LONG ESSAYS OF THE FOLLOWING WITH
LEGIBLE DIAGRAMS**

2x50=100

1. Recent advances in Orthodontic diagnosis
2. Orthodontic practice management
3. Temporary anchorage device .

QP Code No 466 NR

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-8
MDS DEGREE EXAMINATION – NOVEMBER 2025

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I
PAPER I

(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Discuss post-natal growth of Mandible and its impact on decision making in functional Jaw Orthopedics
2. Drugs and their involvement in Orthodontics tooth movement
3. Discuss bonding agents from orthodontics point of view and describe recent advances
4. Write in details about calcium homoeostasis in the body
5. Hypothyroidism and its relevance in orthodontics
6. Write in detail about Mandibular Nerve and its branches
7. Wolff's law of transformation of bone
8. Tests of significance
9. Enumerate genetic malocclusion and describe the role of heredity and mode of transmission of characteristics
10. Erikson's stages of emotional development

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – NOVEMBER 2025

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER I
(New regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Describe “Long face syndrome” , Discuss a comprehensive method of diagnosis and treatment planning for the same
2. Describe in detail any one fronto facial cephalometric analysis

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. “Cerebral palsy” – Orthodontics implications
4. Attrition occlusion
5. Bolton’s analysis
6. Cervical vertebral maturity indicators
7. Conventional Cephalometry versus 3D diagnosis

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – NOVEMBER 2025

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER II
(Clinical Orthodontics)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Discuss the various molar distillation procedures
2. Discuss in detail- Aligners in orthodontics

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. "Ortho Perio interdisciplinary system
4. Friction mechanics
5. Reverse Orthodontics
6. Evaluation of Ricketts edgewise appliance
7. Discuss the biomechanics in labial versus lingual orthodontics

Q.P. CODE:466

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – NOVEMBER , 2025

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART -II
PAPER-III

(Descriptive and analyzing type question)
(*New Regulations*)

Time: 3 Hours

Max. Marks: 100

**WRITE ANY TWO LONG ESSAYS OF THE FOLLOWING WITH
LEGIBLE DIAGRAMS**

2x50=100

1. Recent advances in Orthodontic diagnosis
2. Orthodontic practice management
3. Temporary anchorage device .

QP Code No 466 NR

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-8
MDS DEGREE EXAMINATION – OCTOBER 2024

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I
PAPER I

(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Enumerate various growth theories and discuss functional matrix theory in detail
2. Describe in detail about development of speech
3. Enumerate anti sialagogues and their mode of action and uses
4. Describe in detail about the newer arch wires used in Orthodontics
5. Enumerate facial sinuses. Describe their role in achieving facial proportion
6. Obstructive sleep apnea
7. Define and describe in detail the stages of deglutition
8. Write about Buccinator mechanism
9. How will you design a study to assess the prevalence of malocclusion
10. Soft tissue changes due to Orthodontic treatment

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER 2024

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER I
(New regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Three dimensional diagnostic tools in Orthodontics
2. Problem oriented approach in diagnosis and treatment planning in Orthodontics

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. Body dysmorphic disorder
4. Multidisciplinary management for missing tooth
5. Natural Head Position (NHP) and Natural Head Orientation (NHO)
6. Paperless orthodontics
7. Association between soft tissue and hard tissue change due to Orthodontics treatment

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER 2024

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER II
(Clinical Orthodontics)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Orthodontic management of class II and class III malocclusion
2. Infection risks and methods to prevent them in Orthodontic practice

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. "Fluoride releasing adhesives
4. Compare T loop and M loop
5. Hounsfield's classification of bone density and its role in Implant placement
6. Invisible Orthodontics
7. Rapid prototyping

Q.P. CODE:466

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – OCTOBER, 2024

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART -II
PAPER-III

(Descriptive and analyzing type question)
(*New Regulations*)

Time: 3 Hours

Max. Marks: 100

**WRITE ANY TWO LONG ESSAYS OF THE FOLLOWING WITH
LEGIBLE DIAGRAMS**

2x50=100

1. Evolution of functional appliances and choice of functional appliances in clinical orthodontics practice
2. Role of computers in orthodontic research
3. Biomarkers in the field of Orthodontics

Q.P. CODE NO.:466-NR

DR. Y.S.R. UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8

MDS DEGREE EXAMINATION – MAY, 2024

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I

PAPER-I

(Applied Basic Sciences: Applied anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research methodology, Bio-Statistics and Applied Pharmacology)

(New Regulations)

Time : 3 Hours

Max. Marks : 100

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAYS ON THE FOLLOWING:

10x10=100

- 1) Unit structure of bone and its nutrition supply.
- 2) Tonsils and Adenoids.
- 3) Stages of tooth formation and different ways of assessing dental age.
- 4) Hormonal changes during puberty influencing the growth.
- 5) Bleeding disorders.
- 6) Management of anaphylaxis in the dental clinic.
- 7) Genetic counselling.
- 8) Data collection for a study
- 9) Elastics used in Orthodontics
- 10) Muscles of Mastication

QP Code No 466 NR

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-8
MDS DEGREE EXAMINATION – NOVEMBER 2023

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I
PAPER I

(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Discuss the role of Mandibular growth in relation in the facial profile
2. Discuss the formation of the tongue and discuss the role in the development and maintenance of normal occlusion
3. Discuss functional matrix theory in detail
4. Self etching primers
5. Utility of twin studies
6. Attritional occlusion
7. Sample size in clinical studies
8. Chi square test
9. Analgesics in Orthodontics practice
10. Cognitive development of a child

Q.P. CODE NO.:466-NR

DR. Y.S.R. UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8

MDS DEGREE EXAMINATION – NOVEMBER, 2023

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I

PAPER-I

(Applied Basic Sciences: Applied anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research methodology, Bio-Statistics and Applied Pharmacology)

(New Regulations)

Time : 3 Hours

Max. Marks : 100

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAYS ON THE FOLLOWING:

10x10=100

- 1) Discuss the role of mandibular growth in relation to the facial profile.
- 2) Describe the formation of the tongue and discuss its role in the development and maintenance of normal occlusion.
- 3) Discuss functional matrix theory in detail.
- 4) Self-etching primers
- 5) Utility of twin studies
- 6) Attritional occlusion
- 7) Sample size in clinical studies
- 8) Chi-square test
- 9) Analgesics in Orthodontic Practice
- 10) Cognitive development of a child.

Q.P. CODE:467-NR

Dr.YSR University of Health Sciences:AP:: Vijayawada – 520-008

MDS DEGREE EXAMINATION – NOVEMBER, 2023

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II

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 Orthodontics)

(New Regulations)

Time: 3 Hours

Max. Marks: 100

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x25=50

- 1) Describe the etiology, clinical features and treatment plan for the open bite.
- 2) Discuss digital Orthodontics and its relevance in diagnosis and treatment planning.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x10=50

- 3) Pitch, roll and yaw
- 4) Role of secondary cartilages in Orthodontics
- 5) Serial Extractions
- 6) Shortcomings of ANB angle
- 7) Transient malocclusions

Q.P. CODE:468-NR

DR. Y.S.R. UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8

MDS DEGREE EXAMINATION – NOVEMBER, 2023

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II

PAPER-II

(Clinical Orthodontics)

Time: 3 Hours

Max. Marks: 100

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x25=50

- 1) Discuss the need and methods of deprogramming muscle behaviour in Orthodontics.
- 2) Discuss retention and relapse in Orthodontics.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5X10=50

- 3) Recent advances in the biology of tooth movement
- 4) Iatrogenic effects of orthodontic treatment
- 5) Presurgical Orthodontics
- 6) Slow versus rapid expansion
- 7) Hybrid appliances

Q.P. CODE:469 -NR

Dr. YSR University of Health Sciences::AP::Vijayawada-520 008
MDS DEGREE EXAMINATION – NOVEMBER, 2023
SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS
PART-II
PAPER-III
(Descriptive and analyzing type question)
(New Regulations)

Time : 3 Hours

Max. Marks : 100

WRITE ANY TWO LONG ESSAYS OF THE FOLLOWING
WITH LEGIBLE DIAGRAMS

- 1) Adult Orthodontics. 2x50=100
- 2) Enumerate the various methods of anchorage and their merits and demerits. Describe the use of skeletal anchorage in Orthodontics.
- 3) Discuss the role of friction in sliding mechanics.

Q.P. CODE NO.:466-NR

DR. Y.S.R. UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – MAY, 2023
SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I

PAPER-I

(Applied Basic Sciences: Applied Anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research methodology, Bio-Statistics and Applied Pharmacology)

(New Regulations)

Time : 3 Hours

Max. Marks : 100

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAYS ON THE FOLLOWING:

10x10=100

- 1) Stages of development of occlusion and its importance.
- 2) Calcium metabolism.
- 3) Dental Stone.
- 4) Chromosomal abnormalities and facial defects.
- 5) Evolution of Arch wire material
- 6) Reaction of a healthy tissue to different kinds of injury.
- 7) Study designs in Research.
- 8) Vitamins and growth
- 9) Cold working of Alloys
- 10) Modes of reducing friction in orthodontics by choice of materials.

Q.P. CODE:467-NR

Dr.Y.S.R. University of Health Sciences:AP:: Vijayawada – 520-008

MDS DEGREE EXAMINATION – MAY, 2023

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II

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 Orthodontics)

(New Regulations)

Time: 3 Hours

Max. Marks: 100

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x25=50

- 1) Enumerate the various Cranio-facial developmental defects.

Describe their etiology, clinical features and the role of orthodontist in their treatment.
- 2) Discuss behavior problems in adolescence during orthodontic treatment and its management.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x10=50

- 3) Functional occlusion.
- 4) Computerized Imaging and Diagnosis.
- 5) Describe six keys of normal occlusion.
- 6) Skeletal Maturity Indicators in orthodontics
- 7) Waste management in Orthodontics.

Q.P. CODE:468-NR

DR. Y.S.R. UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8

MDS DEGREE EXAMINATION – MAY, 2023

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II

PAPER-II

(Clinical Orthodontics)

Time: 3 Hours

Max. Marks: 100

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x25=50

- 1) Discuss various molar distalization procedures
- 2) Discuss the clinical management of deep bite and add a note on its retention.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5X10=50

- 3) Turbo Wires in Orthodontics.
- 4) White spot lesions.
- 5) Distraction osteogenesis
- 6) Self ligating brackets.
- 7) Stage III Begg mechanotherapy.

Q.P. CODE:469 -NR

Dr. Y.S.R. University of Health Sciences::AP::Vijayawada-520 008

MDS DEGREE EXAMINATION – MAY, 2023

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II

PAPER-III

(Descriptive and analyzing type question)

(New Regulations)

Time : 3 Hours

Max. Marks : 100

**WRITE ANY TWO LONG ESSAYS OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

- 1) Orthodontic treatment in mixed dentition period 2x50=100
- 2) Lasers in Orthodontics.
- 3) Recent advances in diagnosis and treatment planning.

Q.P. CODE:466

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – OCTOBER , 2022

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART -II
PAPER-III

(Descriptive and analyzing type question)
(*New Regulations*)

Time: 3 Hours

Max. Marks: 100

**WRITE ANY TWO LONG ESSAYS OF THE FOLLOWING WITH
LEGIBLE DIAGRAMS**

2x50=100

1. Finishing and detailing
2. Contribution of Robert Murray Ricketts. Charles, Tweed Melvin Moss and Lawrence F Andrews to the orthodontic speciality
3. Signalling molecules signalling pathways and genetic mechanism in craniofacial growth and tooth movement.

QP Code 466

**DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – MAY 2022**

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

**PART-II
PAPER II
(Clinical Orthodontics)**

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Management of non-compliant class II patients
2. Early management of transverse problems in orthodontics

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. Atypical extractions in Orthodontics
4. Surface characteristics of mini screws
5. Debonding techniques
6. Guidelines for stability following orthodontic treatment
7. Management of speech problems associated with malocclusions

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER 2022

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER I
(New Regulations)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Role of antero posterior cephalograms in orthodontic diagnosis
2. Diagnosis and treatment planning in orthognathic surgery.

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

5x10=50

3. Growth trends and reterntion plan according to growth trends
4. Ricketts 4 steps analysis
5. Predictors of crowding during missed dentition
6. Pain control in orthodontics
7. Immediate versus delayed loading of mini implants.

QP Code No 466 NR

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-8
MDS DEGREE EXAMINATION – OCTOBER 2022

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I
PAPER I

(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Briefly outline the embryological development of structures arising from the first and second branchial arches. Enumerate the malformations and add a note on the pathophysiological basis affecting the first branchial arch.
2. Importance of Temporo-mandibular joint in relation to growth and development of mandible
3. Wolff's law of transformation
4. Aesthetic brackets
5. Genetic mutations and orthodontics
6. Current concepts on aetiology of cleft lip and cleft palate
7. Pulpal changes during orthodontic treatment
8. Alpha and beta errors in statistics

9. Methods of studying physical growth
10. Sterilization in orthodontic practice

QP Code No 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – JULY 2021

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-I
PAPER I

(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Discuss nutritional and hormonal factors effecting growth and development of the face
2. Patterns variability and timing of growth
3. Discuss Acid etch” techniques form inception till present days, and describe the methods of etching along with their pros and cons
4. Genetic disorders
5. Evaluation of temporomandibular joint
6. Twin studies in orthodontics
7. Buccinator mechanism
8. Current concept in aetiollgy and management of cleft lip and palate
9. Important of statistics in orthodontics

10. Banding and bonding cement

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – JULY 2021

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER I
(New Regulations)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Fracture causing craniofacial malformations during embryogenesis and their clinical significance
2. Functional and cephalometric criteria for growth modification treatment

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING 5x10=50

3. Stages of psychological development
4. Cone Beam computerized Tomography
5. Digital models
6. Index of orthodontics treatment needs
7. Missed dentition space analysis

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – JULY 2021

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-II
PAPER II
(Clinical Orthodontics)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x25= 50

1. Management of asymmetrical malocclusion
2. Temporomandibular joint Dysfunction : causes and orthodontics managment

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING 5x10=50

3. Frictionless mechanics retraction
4. Orthodontics triage
5. Baggs mechanics
6. Vertically maxillary excess
7. Interpretive orthodontics

Q.P. CODE:466

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – JULY, 2021

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART -II
PAPER-III

(Descriptive and analyzing type question)
(*New Regulations*)

Time: 3 Hours

Max. Marks: 100

**WRITE ANY TWO LONG ESSAYS OF THE FOLLOWING WITH
LEGIBLE DIAGRAMS**

2x50=100

1. Recent advances in orthodontics brackets and wires
2. Lingual orthodontics
3. Epidemiology of malocclusion .

QP Code No 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – DECEMBER 2021

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-1
(Basic Sciences)
(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Discuss in detail the post natal growth of human maxilla and clinical implications
2. Arch wire material used in contemporary fixed appliances therapy
3. Condylar cartilage
4. Frankle's behavior rating scale
5. Gene mapping
6. Skeletal maturity indicators
7. Malnutrition and malocclusion
8. Randomized clinical trial
9. Null hypothesis
10. Discuss calcium metabolism

QP Code 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – DECEMBER 2020

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER I
(Basic Sciences)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Analyze Meta – Analysis as a research for evidence based orthodontics
2. Fluoride releasing dental materials used in orthodontics

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING 5x7=35

3. Mechanism of tooth eruption and factors affecting eruption of teeth
4. Soft tissue changes due to growth seen in face
5. Accelerators of orthodontics tooth movement
6. Chi- square Test
7. Mastication

QP Code No 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – DECEMBER 2020

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-1
(Basic Sciences)
(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Management of negative attitude of child
2. Describe in detail the Ricketts archive method of growth
3. Development of occlusion
4. Effective on drugs on orthodontic treatment
5. Standard deviation and coefficient of variation
6. Sterilization protocols in orthodontics
7. Discuss in detail in type, characteristics and pathways in pain
8. Butler field theory
9. Wilcock Australian arch wires
10. Discuss growth rotation of the mandibular and clinical implication on diagnosis and treatment planning in orthodontics

QP Code No 466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – SEPTEMBER, 2020

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART-1
(Basic Sciences)
(New Regulation)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Pharyngeal arches
2. Orthodontics adhesives .
3. Growth prediction methods
4. Evaluation of Face
5. Twin Studies
6. Bisphosphonates and orthodontic treatment
7. Randomized Clinical Trial
8. Vitamin D
9. Post-natal growth of maxilla and its clinical implications
10. Deglutition

QP Code 467

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – AUGUST, 2020

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II
(Basic Sciences)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Discuss in detail growth rotation of mandible. Add a note on clinical implications
2. Discuss Arch wire materials in contemporary orthodontics

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING 5x7=35

3. Bisphosphonates
4. White spot lesions
5. Test of significance
6. Evolutionary significance of Temporomandibular Joint
7. Tonsils and Adenoids

QP Code 467

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – AUGUST, 2020

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III
(Clinical orthodontics and Machanotherapy)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Discuss in detail the various treatment modalities for class III skeletal malocclusion
2. Discuss the diagnosis and management of long face syndrome

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING 5x7=35

3. Bio progressive therapy
4. T-loop machanics
5. Pendulum appliance
6. Dental aesthetic index
7. Bonded versus vacuum formed retainers

QP Code 467

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – AUGUST, 2020

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II
(Diagnosis and treatment planning)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Discuss orthodontic management of a child with special needs
2. Discuss role of various methods of soft tissue analysis in diagnosing an orthodontic patient

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING 5x7=35

3. Abnormal deglutition
4. Digital modals
5. Radiographic localization of impacted Canine
6. Reliability of skeletal maturity indicators
7. Tooth transpositions

Q.P. CODE:466

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – AUGUST, 2020

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-IV

(ESSAY)

Time: 3 Hours

Max. Marks: 75

**WRITE ANY TWO LONG ESSAYS OF THE FOLLOWING WITH
LEGIBLE DIAGRAMS**

1. Adult Orthodontics
2. Friction versus frictionless mechanics

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II
(Diagnosis and treatment planning)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Discuss orthodontics management of a child with special needs
2. Discuss the role of various methods of soft tissue analysis in diagnosing an orthodontics patient

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING 5x7=35

3. Abnormal deglutition
4. Digital modules
5. Radiographic localization of impacted canine
6. Reliability of skeletal maturity indicators
7. Tooth transposition

QP Code 467

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III
(Clinical Orthodontics Mechanotherapy)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Discuss in detail the various treatment modalities for class III skeletal malocclusion
2. Discuss the diagnosis and management of long face syndrome

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING 5x7=35

3. Bio-progressive therapy
4. T-loop mechanics
5. Pendulum appliance
6. Dental aesthetic index
7. Bonded versus vacuum formed retainers

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER IV

(ESSYA)

Time: 3 Hours

Marks 75

**WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

1. Adult orthodontics
2. Friction Versus frictionless mechanics .

QP Code 467

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PART 1

(Basic Sciences)
(New Regulations)

Time: 3 Hours

Marks 100

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING

10x10= 100

1. Primary and secondary cartilage
2. Text of significance .
3. Lasers in orthodontics
4. Craniofacial anomalies
5. Role on hormones in growth and development
6. Muscles of Mastication
7. Evaluation of dentition
8. Postnatal growth of mandible and its clinical implications
9. Analgesics in orthodontic practice
10. Skeletal maturity indicators

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER I

(Basic Science)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Discuss normal development of occlusion from birth to adulthood
2. Discuss current concept of bone biology in orthodontics .

WRITE SHORT ESSAY ON THE FOLLOWING

5x7-35

3. Cartilage as determinant in craniofacial growth
4. Neural Crest Cells
5. Australian Arch Wires
6. Randomized controlled Trails
7. Sterilizations protocols in orthodontics

QP Code 467

DR. NTR UNIVERSITY OF HEALTH SCIENCES;; AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II

(Diagnosis and treatment planning)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Discuss diagnosis of malocclusion in vertical dimension
2. Discuss the role of cephalometrics in orthodontics. Add a note on Cephalometrics errors.

WRITE SHORT ESSAY ON THE FOLLOWING

5x7=35

3. Theory of cognitive development
4. Obstructive sleep Apnoea
5. Pitch , Roll and Yaw
6. Computerized growth Forecasting
7. Maternal deprivation syndrome

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER , 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III

(Clinical orthodontics and Mechanotherapy)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Classify myofunctional appliances. Discuss its role in correction of class II's skeletal bases. Add an note on criteria for case selection
2. Critically evaluate various torque prescriptions in straight wire appliances

WRITE SHORT ESSAY ON THE FOLLOWING

5x7=35

3. Root resorption during intrusion mechanics
4. Self-Ligation versus conversational Brackets
5. Optimization of orthodontic loops
6. Torquing Axillaries in Begg mechanics
7. Temporary anchorage Devices.

469

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

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MDS DEGREE EXAMINATION – OCTOBER , 2019

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER IV

(ESSAY)

Time: 3 Hours

Marks 75

**WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

1. Lingual orthodontics

Or

2. Discuss management of medically comprised patient during orthodontics treatment

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

MDS DEGREE EXAMINATION – MAY , 2019

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER IV

(ESSAY)

Time: 3 Hours

Marks 75

**WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

1. Detailing the final occlusion in orthodontic treatment

Or

2. Rationale of early age orthodontic treatment and early management of transverse problems

466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – MAY, 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER I

(Basic Sciences)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Biocompatibility of orthodontic material
2. Enumerate various craniofacial development defect and describe their aetiology, differential diagnosis and role of an orthodontist in their treatment

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Sources of error in study design
4. Collagens
5. Endocrinology of adolescence
6. Functional matrix therapy
7. Soft tissue changes due to orthodontic treatment.

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – MAY, 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS
PART 1
(Basic Science)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE SHORT ESSAY ON ONE OF THE FOLLOWING 10x10=100

1. Growth rotations
2. Development of palate and its anomalies
3. Evaluation of arch wires
4. Calcium metabolism
5. Relevance of statistics in orthodontics
6. Evaluation of Temporomandibular joint
7. Self-correcting malocclusions
8. Genetics and malocclusions
9. Cellular changes during orthodontics tooth movement
10. Allergies to orthodontics materials

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – MAY, 2019

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II

(Diagnosis and treatment Planning)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Quantitative methods of evaluation of malocclusion and their role in Orthodontics
2. Static and dynamic smile analysis

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Psychology of pernicious oral habits
4. Anterior component of force
5. Predictors of crowding during mixed dentition
6. Pain control in orthodontics
7. Immediate versus delayed loading of mini implant

469

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

MDS DEGREE EXAMINATION – OCTOBER , 2018

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER IV

**(ESSAY)
(New Regulations)**

Time: 3 Hours

Marks 75

**WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

1. Records maintenance in orthodontic clinics

Or

2. Modes of managing difficult patient

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III

**(Clinical orthodontics and Mechanotherapy)
(New Regulations)**

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Root Resorption
2. Biomechanics of head gears

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Esthetics Orthodontics
4. Drugs affecting Orthodontic tooth movement
5. Fractured anterior teeth before and during orthodontic treatment
6. Planning post treatment retention
7. Use of magnets in orthodontics

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II

**(Diagnosis and treatment planning
(New Regulations))**

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Planning interdisciplinary orthodontics
2. Classification of Malocclusion

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Ethical issues in clinical research
4. Finite element method (FEM) analysis
5. Mixed dentition model analysis
6. Serve system theory of growth and development
7. Temperature transition range (TTR) of Alloys

466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER I

**(Basic Sciences)
(New Regulations)**

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Bone physiology
2. Discuss current methods of growth prediction and their importance in orthodontic treatment planning

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Antisialogogues
4. Lateral pterygoid muscle
5. Diabetes Mellitus
6. Sample selection for Research
7. Pain pathway and Gate control Theory

469

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

MDS DEGREE EXAMINATION – MAY, 2018

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER IV

**(ESSAY)
(New Regulations)**

Time: 3 Hours

Marks 75

**WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

1. Research methodology in Orthodontics

Or

2. Root Resorptions

469

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

MDS DEGREE EXAMINATION – MAY, 2018

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER IV

**(ESSAY)
(New Regulations)**

Time: 3 Hours

Marks 75

**WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

1. Crystallographic basis of metal behavior

Or

2. Soft tissue cephalometric analysis

Q.P. CODE:466

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – MAY, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-I

(Basic Sciences)
(New Regulations)

Time: 3 Hours

Max. Marks: 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Genetic Basis of Malocclusion.
- 2) Pharyngeal Arches and Derivatives.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Describe pathway for pain
- 4) Effects of drugs on orthodontic treatment
- 5) Stem Cells
- 6) Mitosis and Meiosis
- 7) HIV

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – MAY, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III

(Clinical Orthodontics and Mechanotherapy)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAM

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Techniques employed for simultaneous intrusion and retraction of anterior teeth
2. Factors to be considered in selecting a fixed appliance technique for treating a particular type of malocclusion

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Bonded versus banded rapid palatal expander
4. Surface characteristics of mini screws
5. Soft tissue changes following orthognathic surgery
6. Recycling of fixed appliance components
7. Role of orthodontist in speech problems associated with malocclusion

466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – MAY, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III

(Clinical Orthodontics and Mechanotherapy)

(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Surgical Orthodontics
2. Emergencies in Orthodontics Clinic

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Reverse Orthodontics
4. Planning Anchorage
5. Extraction and Non Extraction Treatment
6. Influence of growth on treatment results
7. Planning orthodontic clinic

466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – MAY, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III

(Diagnosis and treatment Planning)

(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Psychological management of children and adolescents
2. Need criteria and choice of elderly individual for orthodontic treatment

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Properties of orthodontics metals based on their atomic structure
4. Biomechanics of Lingual Orthodontics
5. Analysis of Variance in Statistics for Orthodontics
6. Proportional Facial analysis in cephalometrics
7. Assessment of Dental Age

Q.P. CODE:466

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – NOVEMBER, 2017

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-I

(Basic Sciences)
(New Regulations)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Embryological development of face and its anomalies
- 2) Ethical issues of Research.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Balanced diet
- 4) Bacterial Endocarditis Prophylaxis
- 5) Physiology of contraction of motor muscles
- 6) Adolescent behavioural Psychology and Management
- 7) Rubber Base Impression Materials

Q.P. CODE:466

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – JUNE, 2017

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-I

(Basic Sciences)
(New Regulations)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Discuss the role of hormones in orthodontics.
- 2) Discuss the development of palate and its congenital anomalies.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Biostatistics
- 4) Condylar cartilage
- 5) Chair side modification of wire properties
- 6) Growth information from orthopantomograms (OPG)
- 7) Sterilization in orthodontics

7Q.P. CODE:467

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – MAY, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-II

(Diagnosis and treatment planning)
(*New Regulations*)

Time: 3 Hours

Max. Marks: 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Psychological management of children and adolescents.
- 2) Need, Criteria and choice of elderly individuals for orthodontic treatment.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Properties of orthodontic metals based on their atomic structure.
- 4) Biomechanics of Lingual Orthodontics
- 5) "Analysis of Variance" in Statistics for Orthodontics
- 6) Proportional Facial analysis in Cephalometrics
- 7) Assessment of Dental Age

Q.P. CODE:468

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – MAY, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-III
(Clinical Orthodontics and Mechanotherapy)
(*New Regulations*)

Time: 3 Hours

Max. Marks: 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Surgical Orthodontics.
- 2) Emergencies in Orthodontic Clinic.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Reverse Orthodontics
- 4) Planning Anchorage
- 5) Extraction and Non Extraction treatment
- 6) Influence of growth on treatment results
- 7) Planning Orthodontic Clinic

Q.P. CODE:469

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – MAY, 2018

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-IV

(ESSAY)

(New Regulations)

Time: 3 Hours

Max. Marks: 75

WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH
LEGIBLE DIAGRAMS

1) Research Methodology in Orthodontics

OR

2) Root Resorptions

Q.P. CODE:467

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – NOVEMBER, 2017

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-II

(Diagnosis and treatment planning)
(*New Regulations*)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Concepts in treatment Planning to achieve maximum aesthetics
- 2) Diagnosis and treatment planning in Orthognathic Surgery

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Importance of Chin in Orthodontics and its analysis
- 4) Osseous requirements for receiving mini implants
- 5) Osteoclasts
- 6) Evolution of bracket prescriptions
- 7) Load-Deflection rate of Orthodontic wires

Q.P. CODE:467

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – JUNE, 2017

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-II

(Diagnosis and treatment planning)
(*New Regulations*)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Discuss various stages in Psychological development of child and how psychological factors influence orthodontic treatment
- 2) Functional examination in treatment planning.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Unerupted teeth
- 4) White spot lesions
- 5) Facial symmetry
- 6) Indications for cone beam CT
- 7) Etiology for relapse following orthodontic treatment

Q.P. CODE:468

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – NOVEMBER, 2017

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-III
(Clinical Orthodontics and Mechanotherapy)
(*New Regulations*)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Vertical discrepancies of face: Problems and their management
- 2) Cleft Orthodontics

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Interceptive Orthodontics
- 4) Indications and outcomes of transverse expansion of Maxilla
- 5) Orthodontic treatment triage
- 6) Clinical analysis of soft tissue profile
- 7) Pain and Tooth mobility during Orthodontic treatment

Q.P. CODE:468

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – JUNE, 2017

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-III
(Clinical Orthodontics and Mechanotherapy)
(*New Regulations*)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Molar distalisation.
- 2) Adult orthodontics.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Moment to force ratio
- 4) Segmental arch technique
- 5) Treatment of transpositions
- 6) Head gears
- 7) Root resorption

Q.P. CODE:469

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-8
MDS DEGREE EXAMINATION – NOVEMBER, 2017

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-IV

(ESSAY)

(New Regulations)

Time : 3 Hours

Max. Marks : 75

WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH
LEGIBLE DIAGRAMS

1) Lingual Orthodontics

OR

2) General Medical Aspects to be considered before starting
Orthodontic Treatment

- - -

Q.P. CODE:469

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – JUNE, 2017

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III

(Clinical orthodontics and Mechanotherapy)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Molar distalisation
2. Adult Orthodontics

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Moment to force ration
4. Segmental arch technique
5. Treatment of Transposition
6. Head gears
7. Roof resorption

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – JUNE, 2017

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER I
(Basic Science)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Write in detail about the role of micro nutrients in the process of growth and development
2. Functional examination matrix theory in relation to concepts of mechanotransduction and the computational bone biology

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Discuss about the role of friction between different types arch wires and brackets (arch wire bracket interface)
4. Role of neural crest cells in craniofacial birth defects
5. PAR Index
6. Homeo box genes
7. Adhesion Molecules and Mechanism of Cellular Adhesion

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – JUNE, 2017

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II
(Diagnosis and treatment planning)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

8. Discuss various stages in Psychological development of child and how psychological factors influence orthodontic treatment
9. Functional examination in treatment planning

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

10. Unerupted teeth
11. White spot lesions
12. Facial symmetry
13. Indications for cone beam CT
14. Etiology for relapse following orthodontics treatment

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – JUNE, 2016

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II

(Basic Science)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Discuss in detail about the newer arch wires used in Orthodontics
2. Discuss in detail the current concept of functional matrix theory of Melvin Moss

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Test of significance
4. Meckel's Cartilage
5. Muscles of mastication
6. Sample size in clinical studies
7. Dizygotic Twins

466

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – JUNE, 2016

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II

(Diagnosis and treatment planning)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING 2x20=40

1. Discuss the etiology, differential diagnosis and treatment plan for deep bite
2. Discuss the important of psychology in the diagnosis and management of the orthodontic patient

WRITE SHORT ESSAY ON THE FOLLOWING 5x7=35

3. Self-ligating brackets
4. Radiation hazards in orthodontics
5. Simons classification
6. Orthodontics clinic design
7. Management of impacted canine

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – JUNE, 2016

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III

(Clinical orthodontics and Mechanotherapy)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Discuss in detail about pros and cons of early treatment / appropriate time for orthodontics treatment
2. Discuss the biomechanics of retraction in labile vs lingual appliances

WRITE SHORT ESSAY ON THE FOLLOWING

3. Molar distalization
4. Chromosome arch (anchorage device)
5. Current protocol for management of cleft cases
6. Tip edge appliance
7. Micro implant

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

MDS DEGREE EXAMINATION – JUNE, 2016

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER IV

**(ESSAY)
(New Regulations)**

Time: 3 Hours

Marks 75

**WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

1. Discuss in detail different types of orthodontics appliances

Or

2. Newer Orthodontics materials

466-IA

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

MDS DEGREE EXAMINATION – JUNE, 2016

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-I

(Basic Sciences)
(New Regulations)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Discuss in detail about ner
- 2) Discuss in detail about the recent advances in Orthodontic Materials.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Growth Rotations
- 4) Mechanisms of Eruption of teeth
- 5) Chi-Square test
- 6) Anatomy of TMJ
- 7) Malnutrition and Malocclusion

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER,/ NOVEMBER 2016

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER II

(Clinical orthodontics and Mechanotherapy)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAM

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Write about any 2 theories related to dentofacial growth and describe how the theories are useful in planning treatment
2. Adult Orthodontics

WRITE SHORT ESSAY ON THE FOLLOWING

3. Skeletal maturity indicators
4. Micro esthetics
5. Electromyography
6. Cephalometrics for planning Orthognathis surgeries
7. Planning retention

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER, 2016

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER III

(Clinical orthodontics and Mechanotherapy)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

- 8. Friction in Orthodontics
- 9. Lingual Orthodontics

WRITE SHORT ESSAY ON THE FOLLOWING

- 10. Bend principle
- 11. Distraction osteogenesis
- 12. Indications for bilateral sagittal split osteotomy
- 13. Preformed orthodontics wires
- 14. Transition stage of dentition

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008
MDS DEGREE EXAMINATION – OCTOBER/ NOVEMBER , 2016

SPECIALITY: ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER I

(Basic Science)
(New Regulations)

Time: 3 Hours

Marks 75

ANSWERS ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAY ON ONE OF THE FOLLOWING

2x20= 40

1. Describe the structure movements of Temporo Mandibular Joint and their pathologies
2. Discuss calcium metabolism as related to Orthodontics

WRITE SHORT ESSAY ON THE FOLLOWING

3. Space lattice of different types of stainless steel
4. Growth trends and jaw rotations
5. Alveolar Bone Turn Over
6. Different stages of Calcification of Teeth
7. Impact of drugs on Orthodontics Tooth Movement

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

MDS DEGREE EXAMINATION – OCTOBER/ NOVEMBER, 2016

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER IV

**(ESSAY)
(New Regulations)**

Time: 3 Hours

Marks 75

**WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

1. Muscle Physiology in Orthodontics

Or

2. Vertical Control of Growth

466-IA

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

MDS DEGREE EXAMINATION – APRIL , 2015

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER IV

**(ESSAY)
(New Regulations)**

Time: 3 Hours

Marks 75

**WRITE LONG ESSAY ON ONE OF THE FOLLOWING WITH LEGIBLE
DIAGRAMS**

1. Discuss in detail diagnosis and management of class III patient s

Or

2. Discuss the role of an orthodontics in orthognathic surgical management
of a patient

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

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MDS DEGREE EXAMINATION – APRIL , 2015

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-II
(Diagnosis and treatment planning)
(*New Regulations*)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Basic and advances radiographic Aids in Orthodontics
diagnosis .
- 2) Discuss in detail hereditary and environmental influence
on malocclusion .

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Digital models
- 4) Smile esthetics
- 5) Functional occlusion
- 6) Soft tissue analysis
- 7) Diagnosis of impacted ceninee

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

...
MDS DEGREE EXAMINATION – APRIL , 2015

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-III
(Clinical Orthodontics and Mechanotherapy)
(New Regulations)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Root resorption etiology, diagnosis and clinical implications

.

- 2) Explain in detail about transverse expansion of Maxilla .

Add a note on surgically assisted rapid palatal expansion

(SARPE)

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Twin Block Appliance
- 4) Early treatment
- 5) Missing upper incisor
- 6) Skeletal anchorage system
- 7) Stage III Begg

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

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MDS DEGREE EXAMINATION – APRIL , 2015

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-I
(Basic Science)
(New Regulations)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Discuss in detail about the properties of the following
orthodontic wires- stainless steel, B- Titanlum. Cobalt
Chromium. Add a note on Nickel Allergies
- 2) Medically compromised patients in an Orthodontics
Practice

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) IOTN index
- 4) Vitamin D
- 5) Temporomandibular disorders
- 6) Randomized controlled trial
- 7) Growth Rotations

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

MDS DEGREE EXAMINATION – JUNE, 2015

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-I

(Basic Sciences)
(New Regulations)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Discuss in detail about the revised Functional Matrix Hypothesis.
- 2) Discuss in detail about the recent advances in Orthodontic Materials.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Growth Rotations
- 4) Mechanisms of Eruption of teeth
- 5) Chi-Square test
- 6) Anatomy of TMJ
- 7) Malnutrition and Malocclusion

468-IA

DR. NTR UNIVERSITY OF HEALTH SCIENCES;;AP;;VIJAYAWADA-520 008

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MDS DEGREE EXAMINATION – JUNE, 2015

SPECIALITY : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

PAPER-III
(Clinical Orthodontics and Mechanotherapy)
(*New Regulations*)

Time : 3 Hours

Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING:

2x20=40

- 1) Different appliances for molar distalization and biomechanics of maxillary molar distalization.
- 2) Discuss the management of Skeletal problems in pre-adolescent children.

WRITE SHORT ESSAYS ON THE FOLLOWING:

5x7=35

- 3) Deep Bite
- 4) Self Ligating Brackets
- 5) Surgical treatment objective
- 6) Distraction osteogenesis
- 7) Indirect bonding

467-MDS DEGREE EXAMINATION – APRIL, 2014-PAPER-II

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS-(Diagnosis and treatment planning)-(New Regulations)-Time : 3 Hours-Max. Marks : 75-ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING: 2 x 20=40m

- 1..Role of advanced imaging techniques in contemporary Orthodontics
- 2..Discuss presurgical Orthodontics

WRITE SHORT ESSAYS ON THE FOLLOWING: 5 x 7=35m

3. Canine Impactions
4. Visual treatment objective
5. Cervical vertebrae in assessing the growth
6. Wright's classification of behaviour of children
7. ALARA principle

467 IA-MDS DEGREE EXAMINATION – JANUARY, 2014-PAPER-II

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS-(Diagnosis and treatment planning)-(New Regulations)-Time : 3 Hours-Max. Marks : 75

WRITE LONG ESSAYS ON THE FOLLOWING: 2 x 20=40m

- 1..Treatment planning in cleft lip & place.
- 2..Diagnosis and treatment planning of 9 year old female child having skeletal class II with Angle's class II malocclusion.

WRITE SHORT ESSAYS ON THE FOLLOWING: 5 x 7=35m

3. IOTN.
4. Role of Mini Esthetics in Orthodontic Diagnosis.
5. Smile analysis.
6. Radiation hazards.
7. Skeletal Maturity Indicators.

467-MDS DEG EXAMINATION – OCTOBER, 2013-ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS-PAPER-II-(Diagnosis & treatment planning)
(New Regulations)-Time: 3 Hrs-Max. Maks: 75-Answer All Questions With Legible Diagrams

WRITE LONG ESSAYS ON THE FOLLOWING: 2 x 20m

- 1..Describe the etiology, differential diagnosis and treatment plan for open bite.
- 2..Discuss the various implications in psychologically and physically handicapped child. How will you manage such child in your office?

WRITE SHORT ESSAYS ON THE FOLLOWING: 5 X 7=35m

- 3..Tongue thrusting swallowing habits
- 4..Bolton's analysis
- 5..Stereophotogrammetry
- 6..Serial extractions
7. Steiner's analysis

467-MDS DEG. EXAMINATION – APRIL, 2013-ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS-PAPER-II-(Diagnosis & treatment planning)
(New Regulations)-Time : 3 Hrs-Max. Marks : 75-Answer All Questions With Legible

WRITE LONG ESSAYS ON THE FOLLOWING: 2 x 20=40m

- 1..Describe the cephalometric parameters you will evaluate to diagnose skeletal dysplasias
- 2..Evolution of orthodontic diagnostic aids.

WRITE SHORT ESSAYS ON THE FOLLOWING: 5 x 7=35m

3..Arch forms. 4..Mixed dentition model analysis 5. Limitations of cephalometric analysis
6. Skeletal maturity indicators 7. Ricketts cephalometric analysis.

467-MDS DEG. EXAM-OCT., 2012-Orthodon. & Dentofacial Orthopaed-PAPER-II

(Diagnosis and treatment planning)-(New Regulations)=Time : 3 Hours-Max. Marks : 75

Answer All Questions With Legible Diagrams

Write Long Essays On The Following: 2 x 20=40m

- 1..Paradigm shift to soft tissue treatment planning.
- 2..Diagnostic aids – Classify and give a detailed report on total space analysis and Bolton's analysis.

Write Short Essays On The Following: 5 x 7=35m

3..Anchorage 4..CBCT – Cone Beam Computerised Tomography.

5..Grading of Canine impaction. 6..Curve of Spee 7..Model Surgery.

467-MDS DEG. EXAM-APR., 2012-Orthodontics & Dentofacial Orthop.-PAPER-II

(Diagnosis and treatment planning)-(New Regulations)-Time : 3 Hours-Max. Marks : 75

Answer All Questions With Legible Diagrams

Write Long Essays On The Following: 2 X 20=40m

- 1..Presurgical orthodontics.
- 2..Psychological rating of children in orthodontics.

Write Short Essays On The Following: 5 x 7=35m

3..Surgical treatment objective (S.T.O). 4..Methods of assessing physical growth

5..Chromosomal aberrations. 6..Holdaway's soft tissue analysis.

7. Tongue analysis.

451-OR-M.D.S. DEGREE EXAMINATION – APRIL, 2012-PART-II-ORTHODONTICS

(old Regulations)-PAPER-II-(Growth And Development, Genetics, Radiology And Child

Psychology)-Time: 3 Hours-Max. Marks: 100

Answer All Questions

1..Role of genetics in Class III malocclusions=25m 2. Panoramic Radiographs=25m

3. Long face syndrome=25m 4. Cellular response to orthodontic tooth movement=25m

467-MDS DEG. EXAM-OCT., 2011-Orthodontics & Dentofacial Orthop.-PAPER-II

(Diagnosis and treatment planning)-(New Regulations)-Time : 3 Hours-Max. Marks : 75

Write Long Essays On The Following: 2 x 20=40m

1..Soft tissue cephalometric analysis and its use in orthodontic treatment planning.

2..Concepts in treatment planning to achieve maximum esthetics.

Write Short Essays On The Following: 5 x 7=35m

3..Evaluate skeletal maturation using cervical vertebrae. 4..Radiation hazards in orthodontics

5..Cone beam computerized tomography. 6..Pitch, Roll and Yaw.

7..Video cephalometry

467-MDS DEG. EXAM-APR, 2011-Orthodontics & Dentofacial Orthop-PAPER-II

(Diagnosis and treatment planning)-(New Regulations)-Time : 3 Hours-Max. Marks : 75

Write Long Essays On The Following: 2 x 20=40m

1..Diagnosis and treatment planning in orthognathic surgery.

2..Errors in cephalometry.

Write Short Essays On The Following: 5 x 7=35m

3..Treatment strategies for a 7 year old male patient with open bite malocclusion.

4..Natural head position.

5..Tweeds diagnostic triangle and its importance in deciding various growth trends.

6..Visual Treatment Objective (V.T.O.).

7..Bolton's analysis

451-M.D.S. DEG. EXAM-OCT., 2010-PART-II-ORTHODONTICS-PAPER-II

(Growth & Development, Genetics, Radiology & Child Psychology)-Time:3Hrs-Max.

- 1..Discuss the factors influencing the normal occlusion. Outline briefly the concept of functional occlusion=25m
- 2..Digital Photography in orthodontics=25m
3. Write in brief=15+10=a) Esthetic brackets b) Genetic basis of Down's syndrome
- 4..Write short notes on=15+10=a) Evolution of temporo-mandibular joint
b) Computerized growth forecasting.

451-M.D.S. DEG. EXAM-APRIL, 2010-PART-II-ORTHODONTICS-PAPER-II

- 1..Discuss various stages in the psychological development of child and how psychological factors influence orthodontic treatment=25m
- 2..The latest trends in orthodontic diagnosis and treatment planning=25m
- 3..Write in brief=15+10=25=a) Interceptive Orthodontics b) Acromegaly
- 4..Write short notes on=15+10=25m
a) Steiner's Cephalometric Analysis b) Oblique Lateral Radiography

451-M.D.S. DEG. EXAM-APRIL, 2009-PART-II-ORTHODONTICS-PAPER-II

- 1..Discuss the effects of extra oral appliances on craniofacial growth. Give a summary of two latest studies on this subject=40m
- 2..Discuss in brief:- a) Genetic Determination b) Skeletal analysis in lateral cephalogram=30m
3. Write short notes on=3x10=30m
a) Role of Vitamin in Growth b) Natural Head position in cephalometric
c) Chromosomal abnormality

451-M.D.S. DEG. EXAM-NOV., 2008-PART-II-ORTHODONTICS-PAPER-II

- 1..Describe the Intrinsic and extrinsic factors influencing the growth and development of jaws.
- 2..Write in brief: a) Chromosomal aberrations. b) Psycho-Analytic theory by Ericsson.
3. Write short notes on: a) Scammon's growth Curve b) ALARA Principle
c) Methods of assessing Physical Growth

451-M.D.S. DEG. EXAM-MAY, 2008=PART-II-ORTHODONTICS-PAPER-II

- 1..Discuss Soft Tissue development of face from Child to Adult.
- 2..Write in brief. a) Different Growth Theories b) Positive Reinforcement
- 3..Write short notes on: a) Cervical Vertebrae in assessing the Growth.
c) Quadrilateral Analysis c) Maternal Deprivation Syndrome

451-M.D.S. DEG. EXAM-NOV-2007=PART-II-ORTHODONTICS-PAPER-II

- 1..Discuss cranio-facial growth in adult.
2. Write in brief: a) RNA & DNA b) Wright's classification of behavior of children
3. Write short notes on: a) Hard Wrist X-ray b) Grummon's Analysis
c) Aversive conditioning.

451-M.D.S. DEG. EXAM-NOV-2006=PART-II-ORTHODONTICS-PAPER-II

- 1..Classify the cleft palate patients. Discuss the growth and development of treated and untreated cleft lip and cleft palate.
2. Discuss in brief: a) Role of nutrition in development of teeth
b) Radiation hazards in Orthodontic office
3. Write short notes on: a) Index of orthodontic treatment need (IOTN)

b) Solders and Fluxes c) Niti-wire in Orthodontics

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468-IA-MDS DEG. INTERNAL ASSESSMENT EXAMINATION – JUNE, 2014

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS-PAPER-III-(Clinical Orthodontics and Mechanotherapy)-(New Regulations)-Time : 3 Hours-Max. Marks : 75

ANSWER ALL QUESTIONS WITH LEGIBLE DIAGRAMS

WRITE LONG ESSAYS ON THE FOLLOWING: 2 x 20=40m

- 1..What is indirect bonding? Name the different indirect bonding techniques and write in detail about the two most commonly used indirect bonding procedures used in Lingual orthodontics.
- 2..Management of skeletal Class III malocclusion in adult patients.

WRITE SHORT ESSAYS ON THE FOLLOWING: 5 x 7=35m

- 3..Orthodontic scars.
- 4..CAT (Combination Anchorage Technique).
- 5..Define Tip and Torque with diagrams. Write about their prescriptions used in Fixed Appliances.
- 6..Moment of force ratios.
7. Benefits of Computers in Orthodontics.

468-MDS DEGREE EXAMINATION – APRIL, 2014-PAPER-III

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS- (Clinical Orthodontics and Mechanotherapy)-(New Regulations)-Time : 3 Hours-Max. Marks : 75

WRITE LONG ESSAYS ON THE FOLLOWING: 2 X =40m

- 1..Discuss the correction of deep bite
- 2..Design and management of Orthodontic practice

WRITE SHORT ESSAYS ON THE FOLLOWING: 5 x 7=35m

- 3..Evaluation of smile
- 4..Frictionless mechanics
5. Self ligating brackets
- 6..Incompetent lips
- 7..Photography in Orthodontics

468-MDS DEGREE EXAMINATION – OCTOBER, 2013-ORTHODONTICS &

DENTOFACIAL ORTHOPAEDICS-PAPER-III-(Clinical Orthodontics and Mechanotherapy)-(New Regulations)-Time : 3 Hours-Max. Marks : 75-Answer All Questions With Legible Diagrams

WRITE LONG ESSAYS ON THE FOLLOWING: 2 x 20=40m

- 1..Aetiology and treatment of Cl-III malocclusion in growing patients.
- 2..Discuss in details different methods of orthodontic space closure

WRITE SHORT ESSAYS ON THE FOLLOWING: 5 x 7=35m

- 3..Space regaining methods 4..Hybrid appliance 5. Atypical extractions in Orthodontics
6. Sterilization in Orthodontics
7. Complications of Orthodontic Temporary anchorage devices

468-MDS DEGREE EXAMINATION – APRIL, 2013-ORTHODONTICS &

WRITE LONG ESSAYS ON THE FOLLOWING: 2 x 20=40m

- 1..Management of Anterior Crossbite in deciduous and mixed dentition.

2. Discuss the various molar distalisation procedures.

WRITE SHORT ESSAYS ON THE FOLLOWING: 5 x 7=35m

3. Iatrogenic effects of Orthodontic treatment
4. Fixed functional appliances
5. Distraction osteogenesis
6. Orthodontic management of impacted teeth
7. Dental esthetic index

468-MDS DEG. EXAM – OCT., 2012-Orthodon. & Dentofacial Orthop-PAPER-III

(Clinical Orthodontics and Mechanotherapy)-(New Regul.)-Time : 3 Hrs-Max. Mrks : 75

Answer All Questions With Legible Diagrams

Write Long Essays On The Following: 2 X 20=40m

- 1..Friction in Orthodontics.
- 2..Bite opening mechanics in Orthodontics

Write Short Essays On The Following: 5 x 7=35m

- 3..Relapse
- 4..Loop designs and force systems
- 5..Incompetent lips
- 6..Reverse Pull Head Gear.
- 7..Lingual Arches

468-MDS DEG. EXAM-APR, 2012-Orthodontics & Dentofacial Orthop-PAPER-III

(Clinical Orthodontics & Mechanotherapy)-(New Regulations)-Time:3 Hrs-Max.Mrks-75

Answer All Questions With Legible Diagrams

Write Long Essays On The Following: 2 x 20=40m

- 1..Anchorage management in orthodontics.
- 2..Self ligating brackets.

Write Short Essays On The Following: 5 x 7=35m

- 3..Utility arches.
- 4..R.A.P. (Regional Acceleratory Phenomenon).
- 5..Drugs affecting orthodontic tooth movement.
- 6..Moment to force ratio.
- 7..Determinate Vs Indeterminate systems

452-OR-MDS. DEG. EXAM-APRIL, 2012-PART-II-ORTHODONTICS-PAPER-III-O.R.

Principles and practice of Orthodontics-Time: 3 Hours-Max. Marks: 100-Answer All Questions

- 1..Discuss treatment of skeletal vertical maxillary excess=25m
- 2..Role of retention in bimaxillary protrusion cases=25m
- 3..Pre-surgical orthodontics involved in Angle's Class III cases=25m
- 4..Diagnosis and treatment of facial asymmetry=25m

468-MDS DEG. EXAM-OCT, 2011-Orthodontics & Dentofacial Orthop-PAPER-III

(Clinical Orthodontics & Mechanotherapy)-(New Regulations)-Time:3Hrs-Max.Mrks-75

Write Long Essays On The Following: 2 x 20=40m

- 1..Management of Class II Division-I malocclusions with fixed appliance.
- 2..Concepts of functional appliances.

Write Short Essays On The Following: 5 x 7=35m

- 3..Factors influencing relapse and retention.
- 4..Speed appliance.
- 5..Indirect bonding.
- 6..Temporary anchorage devices.
- 7..Canine distraction

468-MDS DEG. EXAM-APR, 2011-Orthodontics & Dentofacial Orthop.-PAPER-III

(Clinical Orthodontics & Mechanotherapy)-(New Regulations)-Time:3Hrs-Max.Mrks-75

Write Long Essays On The Following: 2 x 20=40m

- 1.Discuss the biology of tooth movement
- 2.Orthodontic office design and practice management

Write Short Essays On The Following: 5 X 7=35m

- 3..Frictionless mechanics
- 4..M.A.A. Auxiliaries
- 5..Transpalatal arches.
- 6..Maxillary protraction appliance.
- 7..Magnetic appliances

452-M.D.S. DEG. EXAM-OCT., 2010-PART-II-ORTHODONTICS-PAPER-III

Principles & practice of Orthodontics-Time: 3Hrs-Max. Mrks: 100-Answer All Questions

- 1..What is ANCHORAGE? Discuss ANCHORAGE management in preadjusted edgewise technique=25m
- 2..Tip-edge appliance=25m
- 3..Relapse and Re-treatment=25m
- 4..Sterilization and disinfection of orthodontic instruments=25m

452-M.D.S. DEG. EXAM-APRIL, 2010-PART-II-ORTHODONTICS-PAPER-III

Principles & practice of Orthodontics-Time: 3 Hrs-Max.Mrks:100-Answer All Questions

- 1..Discuss Functional Jaw Orthopaedics and its role in the treatment of developing mandibular prognathism=25m
2. Discuss the factors which determine the stability of treated cases=25m
3. Write briefly on=15+10=25m
 - a) Different types of Torques in Begg's Stage III b) Molar Distalization
- 4..Write short notes on=15+10=25m
 - a) Deep – bite b) Incompetent lips

452-M.D.S. DEG. EXAM-APRIL, 2009-PART-II-ORTHODONTICS-PAPER-III

Principles and Practice of Orthodontics-Time:3Hrs-Max.Mrks:100-Answer All Questions

- 1..Evaluation of changes in arch Dimension=40m
- 2..Write in brief=2x15=30m
 - a) Molar Distalization b) Bionater
- 3..Write short notes on=3x10=a) Nitanium maxillary Expander appliances
 - b) Digital Radiograph c) Self ligating brackets

452-M.D.S. DEG. EXAM-NOV., 2008-PART-II-ORTHODONTICS-PAPER-III

- 1..Discuss in detail regarding Pre-Surgical Orthodontics, Surgical and Post-Surgical orthodontics in patient having severe Class 2 Division 2 Malocclusion.
- 2..Write In Brief:
 - a) Evaluation of Smile b)Merits & Demerits of conventional banding & Direct bonding
3. Write Short Notes On:
 - a) Balter's Philosophy b) Self Ligating Brackets c) Butterfly System

452-M.D.S. DEG. EXAM-MAY, 2008-PART-II-ORTHODONTICS-PAPER-III

(Principles And Practice Of Orthodontics)-Time: 3 Hours-Answer All Questions

- 1..Discuss in detail the correction of deep bite.
- 2..Write In Brief:
 - a) Facial Asymmetry b) Pre surgical Orthodontics in Class 3 Malocclusion
- 3..Write Short Notes On:
 - a) Implants in Orthodontics b) Infection Control during orthodontic treatment
 - c) Latex allergy

452-M.D.S. DEG. EXAM-ANOV-2007-PART-II-ORTHODONTICS-PAPER-III

(Principles And Practice Of Orthodontics)-Time: 3 Hours-Answer All Questions

- 1..Discuss space closure by Friction and frictionless procedure in straight wire technique
2. Write in brief: a) Photography in Orthodontics b) Indirect bonding
3. Write short notes on: a) Distraction Osteogenesis b) Treatment of Open Bite
 - c) Retention

452-M.D.S. DEG. EXAM-ANOV-2006-PART-II-ORTHODONTICS-PAPER-III

- 1..Discuss mode of action of activator, bionator and frankel appliances while correcting class II DIV. 1 Malocclusion.
2. Write in brief: a) Straight wire appliance

- b) Concepts of tweed and orthodontic treatment
3. Write short notes on: a) Rapid maxillary expansion b) Canine Retraction
- c) Indirect Bonding

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MDS DEG. EXAMINATION – APRIL, 2014-PAPER-IV-ESSAY-NEW REG
ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS-Time: 3Hrs-Max. Marks : 75
Write Long Essay On One Of The Following With Legible Diagrams

1..Temporary anchorage devices in Orthodontics “OR”

2..Lingual Orthodontics

469 IA-MDS DEG. EXAMINATION – JANUARY, 2014-PAPER-IV-ESSAY-N.R.

1..Discuss in detail about the regional acceleratory phenomenon (RAP)
and its significance in orthodontics. “OR”

2..Biomechanical principles in fixed appliances.

469-MDS DEGREE EXAMINATION – OCTOBER, 2013-ORTHODONTICS &

1..Role of Orthodontics in management of cleft lip and palate “OR”

2..Adult orthodontic treatment

473-MDS DEGREE EXAMINATION – APRIL, 2013-ORTHODONTICS &

1..Recent advances in Orthodontic treatment “OR”

2..Orthodontic treatment in mixed dentition period

469-MDS DEG. EXAM-OCT, 2012-Orthod. & Dentofacial Orthopaed=PAPER-IV

1..Craniofacial imaging and recent concepts “OR” 2..Presurgical Orthodontics

469-MDS DEG. EXAM-APR, 2012-Orthodontics & Dentofacial Orthop-PAPER-IV

1..Orthodontic treatment in mixed dentition period. “OR”

2..Recent developments in Ortho-Perio interdisciplinary approach.

453-OR-M.D.S. DEG. EXAM – APRIL, 2012-PART-II-ORTHODONTICS-PAPER-IV-O.R.

1. Anchorage control in pre-adjusted edgewise appliance (PEA). “OR”

2. Effect of orthodontic treatment on temporomandibular joint.

469-MDS DEG. EXAM-OCT, 2011-Orthodontics & Dentofacial Orthop-PAPER-IV

1..Root resorption in orthodontics. “OR”

2..Discuss in detail different types of orthopaedic appliances.

469-MDS DEG. EXAM – APRIL, 2011-Orthodontics & Dentofacial –PAPER-IV

1..Mini-screws in orthodontics. “OR” 2..Biomechanical principles in fixed appliances.

453-M.D.S. DEG. EXAM-OCT., 2010-PART-II-ORTHODONTICS-PAPER-IV

1. BEGG’s appliance versus edgewise appliance. “OR”

2. Recent advances in orthodontic treatment.

453-M.D.S. DEG. EXAM-APRIL, 2010-PART-II-ORTHODONTICS-PAPER-IV

1. Technique dogma in orthodontics. OR 2. Lingual orthodontics.

453-M.D.S. DEG. EXAM-APRIL, 2009-PART-II-ORTHODONTICS-PAPER-I V

1. Distraction Osteogenesis “OR”

2. Treatment Mechanism of Straight Wire Appliance. Reason for various prescription.

453-M.D.S. DEG. EXAM-NOV., 2008-PART-II-ORTHODONTICS-PAPER-IV

1..Molar Distalisation. “OR”

2. Discuss management of medically compromised patients during orthodontic treatment.

453-M.D.S. DEG. EXAM-MAY, 2008-PART-II-ORTHODONTICS-PAPER-IV

1..Discuss guidelines for successful orthodontic Practice. “OR”

2. Orthodontic Treatment in mixed dentition period.

453-M.D.S. DEG. EXAM-NOV-2007-PART-II-ORTHODONTICS-PAPER-IV

1. a) Magnets in Orthodontics “OR” b) Space closer in different techniques

453-M.D.S. DEG. EXAM-NOV-2006-PART-II-ORTHODONTICS-PAPER-IV

1..Surgical Orthodontics “OR” 2. Orthodontic Wires

466-IA-MDS DEG. INTERNAL ASSESSMENT EXAMINATION – JUNE, 2014
ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS-PAPER-I-(Basic Sciences)
(New Reg)-Time : 3 Hrs-Max. Mrks : 75-Answer All Questions With Legible Diagrams
WRITE LONG ESSAYS ON THE FOLLOWING: 2 X 20=40m

- 1..Write the development of occlusion from gum pads to permanent dentition.
 - 2..Describe various ARCHWIRE and Direct Bonding materials used in Orthodontics.
- WRITE SHORT ESSAYS ON THE FOLLOWING: 5 x 7=35m
- 3..Student 't' test
 - 4..Management of Negative attitude child.
 - 5..Lateral pterygoid muscle and its importance in orthodontics.
 6. Lasers in orthodontics
 7. Sliding filament theory

466-MDS DEGREE EXAMINATION – APRIL, 2014-PAPER-I
ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS-PAPER-I-(Basic Sciences)
(New R)-Time : 3 Hours-Max. Marks : 75-Answer All Questions With Legible Diagrams
WRITE LONG ESSAYS ON THE FOLLOWING: 2 X 20=40m

- 1..Discuss the development of tongue and its role in maintenance of normal occlusion.
 - 2..Write in detail the current concepts on aetiology of cleft lip and cleft palate.
- WRITE SHORT ESSAYS ON THE FOLLOWING: 5 x 7=35m
- 3..Tooth eruption theories
 - 4..Dangerous area of face
 - 5..Aesthetic brackets
 - 6..Student "T" test
 - 7..Advances in Genetics related to malocclusion

466-MDS DEGREE EXAMINATION – OCTOBER, 2013-ORTHODONTICS &
Write long essays on the following: 2 X 20=40m

- 1..Describe in detail post natal growth of the mandible and discuss its implications in orthodontic treatment planning.
 - 2..Describe in detail about the newer arch wires used in Orthodontics.
- Write Short Essays On The Following: 5 x 7 =35m
3. Bonding systems
 4. Utility of twin studies
 5. Chi-square test
 6. Regulation of calcium metabolism in the human body
 7. Development of Anatomy of TMJ

466-MDS DEGREE EXAMINATION – APRIL, 2013-ORTHODONTICS &
Write long essays on the following: 2 x 20=40m

- 1..Discuss the factors influencing the development of normal occlusion. Outline briefly the ' concepts of functional occlusion.
- 2..Enumerate the various craniofacial developmental defects, describe their etiology, differential diagnosis and role of an orthodontist in their treatment.

Write short essays on the following: 5 x 7 =35m

3. Bio degradable orthodontic materials
4. Functional matrix theory
5. Annealing
6. Copper –Nickel Titanium arch wires
7. Discuss about the common statistical errors.

466-MDS DEG. EXAM-OCT, 2012-Orthodon. & Dentofacial Orthopaed.-PAPER-I
Answer All Questions With Legible Diagrams

Write Long Essays On The Following: 2 x 20=40m

- 1..Bone metabolism and its importance in tooth movement
- 2..Methods of gathering growth data and predicting growth.

Write Short Essays On The Following: 5 x 7=35m

- 3..Chromosomal Aberrations
4. Pharyngeal Apparatus
5. Handicapped Child Management
6. Temporo Mandibular Joint.
7. TMA Wires.

466-MDS DEG. EXAM-APR, 2012-Orthodontics & Dentofacial Orthop.-PAPER-I

(Basic Sciences)-(New Regulations)-Time : 3 Hours-Max. Marks : 75

Write Long Essays On The Following: 2 x 20=40m

- 1..Deformations of 1st pharyngeal arch.
- 2..Wrought base metal alloys and its application in orthodontics.

Write Short Essays On The Following: 5 x 7=35m

- 3..Fixing sample size in clinical study.
- 4.Vitamins and growth.
- 5.Generations in bonding materials
- 6.Parathyroid hormone.
- 7.Wolf's law of transformation

466-MDS DEG. EXAM-OCT., 2011-Orthodontics & Dentofacial Orthop.-PAPER-I

(Basic Sciences)- (New Regulations)-Time : 3 Hours-Max. Marks : 75

Write Long Essays On The Following: 2 X 20=40m

- 1..Calcium homeostasis.
- 2..Discuss in detail about the altered orofacial functions on development of face and occlusion.

Write Short Essays On The Following: 5 x 7=35m

- 3..Theories of psychological development.
- 4..Carpal Index.
- 5..Evolution of Mandible.
- 6..Evolution of Arch wire material.
- 7..Current concepts on aetiology of cleft lip and cleft palate

466-MDS DEG. EXAM-APRIL, 2011-Orthodontics & Dentofacial Orthop-PAPER-I

(Basic Sciences)- (New Regulations)-Time : 3 Hours-Max. Marks : 75

Write Long Essays On The Following: 2 x 20=40m

- 1..Bonding systems in orthodontics.
- 2..Discuss the current methods of growth prediction and its importance in orthodontic treatment planning.

Write Short Essays On The Following: 5 x 7=35m

- 3..Recent advances in genetics related to malocclusion.
- 4..Haemophilia.
5. Homeobox genes.
6. Banding and Bonding cements.
7. Functional matrix theory

450-NR-MDS. DEG. EXAM-OCT., 2009-PART-I-ORTHODONTICS-PAPER-I

BASIC SCIENCES-(Applied Anatomy, Histology, Anthropology, Physiology, Nutrition, Dental Materials, Pathology, Oral Pathology & Statistics)-Time: 3 Hrs-Max. Marks: 100

Answer all questions-Each question carries 10 Mrks-Write short essays on the following:

1. Development of Mandible
2. Chi-square test
3. Classification and uses of Composite Resins.
4. Development and Derivatives of Brachial plexus.
5. Neurotrophism.
6. Pain Pathways
7. Nickel Titanium.
8. Ectodermal Dysplasia.
9. Saliva.
10. Role of Vitamins in Growth and Development.

450-NR-M.D.S. DEG. EXAM-APRIL, 2009-PART-I-ORTHODONTICS-PAPER-I

Basic Sciences-(Applied Anatomy, Histology, Anthropology, Physiology, Nutrition, Dental Materials, Pathology, Oral Pathology & Statistics)-Time: 3 Hrs-Max. Mrks: 100

Answer all questions-Each question carries 10 markS-Write short essays on the following

- 1..Discuss the post-natal development of the maxilla and the upper lip with special references to the associated congenital anomalies.
- 2..Microscopic appearance of Enamel.
- 3..Meckel's cartilage
- 4..Stabilized Stainless Steel
- 5..Shape memory alloys
- 6..Composition and function of saliva
- 7..ANOVA
- 8..Condylar growth
- 9..Nutritional factors influencing growth and development
10. Frankels behaviour rating scale.

450-NR-M.D.S. DEG. EXAM-NOV., 2008-PART-I-ORTHODONTICS-PAPER-I

Answer all questions-each question carries 10 marks-write short essays on the following:

- 1..Describe the formation of tongue and its role in the development and maintenance of normal occlusion.
- 2.Alpha and Beta Titanium alloys. 3.Chi – square test. 4.Muscles of Mastication.
- 5.Evolution of the Mandible. 6.Vitamin D. 7.Bonding systems.
- 8..Structure of Enamel and its changes after Acid etching.
- 9..Tooth eruption theories. 10. Mean, Mode and Median.

450-NR-M.D.S. DEG. EXAM-MAY, 2008-PART-I-ORTHODONTICS-PAPER-I

Basic Sciences-(Applied anatomy, histology, anthropology, Physiology, nutrition, dental

- 1..Discuss the importance of temporo-mandibular joint in relation to the growth and development of mandible.
- 2..Copper Niti Wires. 3..Tonsils and Adenoids. 4. Evolution of Maxilla
5. Different stages of calcification of teeth. 6. Growth Hormone
7. Osteoid Tissue. 8. Fixing Sample Size in Clinical Study.
9. Student “T” Test. 10. Growth Rotation.

450-NR-M.D.S. DEG. EXAMNOV-2007-PART-I-ORTHODONTICS-PAPER-I

Basic Sciences

- 1..Write the development of occlusion from gum pads to permanent dentition.
2. Null Hypothesis 3. Glass Ionomer Cement 4. Development of hard palate
5. Evolution of TMJ 6. Importance of Calcium and Phosphorous in bone metabolism
7. Rh Factor 8. Dangerous area of the Face 9. Content of periodontal Ligament
- 10.Diabetes Mellitus

450-NR-M.D.S. DEG. EXAM-APRIL, 2007-PART-I-ORTHODONTICS-PAPER-I

- 1..Discuss the role of endocrines on the growth and development of mandible.
- 2..Discuss the current concepts on etiology of cleft lip and cleft palate.
- 3..Chi-Square test. 4..Factors affecting friction in orthodontics
- 5..VITAMIN ‘C’. 6..Evolution of Arch-wire material.
- 7..Iatrogenic trauma created due to orthodontic therapy.
- 8..Evolution of aesthetic brackets 9..Self etching primers 10.Secondary cartilage.

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