

Reg. No.																			
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY
MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER I – APPLIED BASIC SCIENCES: APPLIED ANATOMY, PHYSIOLOGY, DENTAL MATERIALS, GENETICS, PATHOLOGY, PHYSICAL ANTHROPOLOGY, APPLIED RESEARCH METHODOLOGY, BIO-STATISTICS AND APPLIED PHARMACOLOGY

Monday, April 06, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL the questions.

✍ Illustrate your answers with diagrams and flowcharts wherever possible.

✍ Long Essays:

1. Describe the prenatal and postnatal growth of the mandible in detail.

(20 marks)

2. Describe recent advances in bonding materials and techniques.

(20 marks)

3. Write short notes on :

3A. Muscles of Mastication

3B. Randomized clinical trials

3C. Speech and malocclusion

3D. Growth charts

3E. Association between nutrients and craniofacial growth

(7 marks × 5 = 35 marks)



MANIPAL UNIVERSITY**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – APRIL 2015**

SUBJECT: PAPER II – ORTHODONTIC HISTORY, CONCEPT 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

Tuesday, April 07, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Illustrate your answers with diagrams and flowcharts wherever possible.**

✍ **Long Essays:**

1. Discuss diagnosis and treatment planning for patients with unilateral posterior cross bite. (20 marks)

2. Write on recent advances in imaging techniques in orthodontics. (20 marks)

3. **Short notes:**

3A. Grummon's Analysis

3B. Radiographic assessment of impacted canine

3C. ICON

3D. Abnormal labial freum

3E. Management of handicapped child

(7 marks × 5 = 35 marks)



Reg. No.										
----------	--	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY
MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEADICS)
DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER III – CLINICAL ORTHODONTICS

Wednesday, April 08, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Illustrate your answers with diagrams and flowcharts wherever possible.**

✍ **Long Essays:**

1. Discuss recent advances in bonding materials and technique.

(20 marks)

2. Discuss the factors which stabilize treatment results.

(20 marks)

3. **Write short notes on:**

3A. Structure of DNA

3B. Autosomal recessive characteristics

3C. V-Bend Mechanics

3D. Head gears

3E. Dental esthetic index

(7 marks × 5 = 35 marks)



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY
MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS)
DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER IV: ESSAY

Thursday, April 09, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Draw diagram wherever necessary.**

✍ **Write an essay on:**

1. Orthodontics curriculum development

OR

2. Bonding in Orthodontics

(75 marks)

