

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

MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) DEGREE EXAMINATION – APRIL 2011

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 04, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Illustrate your answers with diagrams, flow charts wherever appropriate.**

1. Describe the racial and genetic influence on craniofacial complex. Add a note on the factors that bring about growth disturbances.

(20 marks)

2. Define an Index. Write in detail about indices used in orthodontics.

(20 marks)

3. **Write short notes on:**

3A. Calcium and phosphorous in growth.

3B. Cleidocranial dysplasia.

3C. Importance of peak height velocity.

3D. Burlington growth study.

3E. Resting position of the mandible and its significance in orthodontics.

(7×5 = 35 marks)



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

MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER II – ORTHODONTIC HISTORY, CONCEPT OF OCCLUSION & ESTHETICS,
CHILD & ADULT PSYCHOLOGY, ETIOLOGY & CLASSIFICATION OF MALOCCLUSION,
DENTOFACIAL ANOMALIES, DIAGNOSTIC PROCEDURES & TREATMENT PLANNING IN
ORTHODONTICS, PRACTICE MANAGEMENT IN ORTHODONTICS

Tuesday, April 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL the questions.

✍ Illustrate your answers with diagrams, flow charts wherever appropriate.

1. Describe about clinical photography in orthodontics.

(20 marks)

2. Discuss about psychological effectiveness of orthodontic treatment.

(20 marks)

3. Write short notes on:

3A. Holdway ratio.

3B. Laser holography.

3C. Treatment planning in cases with missing lateral incisors.

3D. Problem oriented approach.

3E. Lip posture and its significance in treatment planning.

(7×5 = 35 marks)



Reg. No.

--	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS)
DEGREE EXAMINATION – APRIL 2011**

SUBJECT: PAPER III – CLINICAL ORTHODONTICS

Wednesday, April 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

✍ **Illustrate your answers with diagrams, flow charts wherever appropriate.**

1. Explain implants in orthodontics.

(20 marks)

2. Describe molar distalization.

(20 marks)

3. **Write short notes on:**

3A. Lasers in dentistry.

3B. Extractions in orthodontics.

3C. Age and orthodontics.

3D. Twin Block.

3E. Long face syndrome.

(7×5 = 35 marks)



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

MANIPAL UNIVERSITY

**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS)
DEGREE EXAMINATION – APRIL 2011**

SUBJECT: PAPER IV: ESSAY

Thursday, April 07, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Illustrate your answer with diagrams, flow charts wherever appropriate.**

✍ **Write an Essay on:**

Occlusion and orthodontics.

OR

Epigenetic factors affecting growth of craniofacial region.

