

MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEADICS)
DEGREE EXAMINATION – APRIL 2014

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 07, 2014

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 the role of vitamins and hormones in the growth and development of jaws.

(20 marks)

2. Describe the formation of tongue and its role in the development and maintenance of normal occlusion.

(20 marks)

3. Write short notes on:

3A. Molecular basis of Genetics

3B. Annealing

3C. Sutural growth

3D. Carpal Index

3E. Esthetic harmony

(7×5 = 35 marks)



MANIPAL UNIVERSITY**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEADICS)
DEGREE EXAMINATION – APRIL 2014**

**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 08, 2014

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 treatment planning for a case of “Gummy Smile”.

(20 marks)

2. Describe in detail methods of localization of impacted canine.

(20 marks)

3. **Write short notes on :**

3A. Videocephalometry

3B. IOTN

3C. Mandibular canine as indicator of skeletal maturity

3D. Template analysis

3E. Spoilt Child

(7×5 = 35 marks)



MANIPAL UNIVERSITY**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS)
DEGREE EXAMINATION – APRIL 2014****SUBJECT: PAPER III – CLINICAL ORTHODONTICS**

Wednesday, April 09, 2014

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 anchorage consideration in Edgewise appliance today.

(20 marks)

2. Discuss various approaches adopted for deep bite correction in fixed orthodontics.

(20 marks)

3. **Write short notes on:**

3A. Invisible retainers

3B. Bonding brackets on ceramic crowns

3C. Braided archwires

3D. Lingual orthodontics

3E. One-couple system in orthodontics

(7×5 = 35 marks)



MANIPAL UNIVERSITY**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS)
DEGREE EXAMINATION – APRIL 2014****SUBJECT: PAPER IV: ESSAY**

Thursday, April 10, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

- ✍ Answer only ONE question.
- ✍ Draw diagram wherever necessary.
- ✍ Long Essay.

Stability of orthodontic treatment result and associated long term changes.

OR

Technological advances in Orthodontic office.

