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MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) DEGREE EXAMINATION – APRIL 2010

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 05, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL the questions.

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

1. Discuss nutritional and hormonal factors affecting growth of the face.

(20 marks)

2. Describe different cellular responses of various stages of orthodontic treatment.

(20 marks)

3. Write short notes on:

3A. Importance of tongue in growth and development.

3B. GIC in orthodontics.

3C. Congenital defects.

3D. Growth prediction.

3E. Temporomandibular Joint.

(7×5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) DEGREE EXAMINATION – APRIL 2010

**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 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

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

1. Compare Digital Vs Conventional Cephalometrics.

(20 marks)

2. Discuss diagnosis and treatment planning in cases with midline discrepancies.

(20 marks)

3. **Write short notes on:**

3A. Behavioral conditioning.

3B. Xeroradiography.

3C. True & Pseudo Class-III.

3D. Hypodivergent pattern.

3E. Occlusal Equilibration.

(7×5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER III – CLINICAL ORTHODONTICS

Wednesday, April 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the questions.**

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

1. Discuss friction with respect to the various archwire-bracket combinations used in orthodontics.

(20 marks)

2. Discuss “guidance of occlusion” and its relevance to contemporary orthodontics practice.

(20 marks)

3. **Write short notes on:**

3A. American cleft palate association classification.

3B. Technique DOGMA in orthodontics.

3C. Arch form considerations in orthodontics.

3D. Limitations of adult orthodontics.

3E. Orthodontic management of medically compromised patient.

(7×5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER IV: ESSAY

Thursday, April 08, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

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

✍ Write an Essay on:

Esthetic and Invisible orthodontics

OR

Anchorage

