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MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) DEGREE EXAMINATION – APRIL 2013

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 08, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL questions.

✍ Illustrate your answers with diagrams, flowcharts wherever necessary.

✍ Essay:

1. Discuss theorems of growth. Add a note on the recent advances of theories of growth.
2. Discuss the evaluation of facial esthetics and proportion of facial anthropometric measurements.

(20×2 = 40 marks)

3. Short notes:

- 3A. Mutations.
- 3B. Twin studies.
- 3C. Development of TMJ.
- 3D. Autosomal recessive.
- 3E. Tests of significance.

(7×5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS) DEGREE EXAMINATION – APRIL 2013

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 09, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL questions.

✍ Illustrate your answers with diagrams, flowcharts wherever appropriate.

1. Discuss 3D diagnosis and treatment planning in Orthodontics.

(20 marks)

2. Current view of extraction Vs Non Extraction debate.

(20 marks)

3. Short notes:

3A. Divine Proportion.

3B. Cervical vertebrae as indicator of maturity.

3C. Ackermann Profit Classification System.

3D. Abnormal swallowing pattern.

3E. Sassouni's analysis.

(7×5 = 35 marks)



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MANIPAL UNIVERSITY

MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS)
DEGREE EXAMINATION – APRIL 2013

SUBJECT: PAPER III – CLINICAL ORTHODONTICS

Wednesday, April 10, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL questions.

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

1. Discuss the biomechanics involved in orthodontic tooth movement.

(20 marks)

2. How will you select the case for functional jaw orthopedics correction? Discuss.

(20 marks)

3. **Write short notes on:**

3A. Titanium wire and its properties applicable to orthodontics.

3B. Delaire's face mask.

3C. Current modifications of orthodontic attachments.

3D. Strength, stiffness and range of wires.

3E. Leveling by intrusion.

(7×5 = 35 marks)



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MANIPAL UNIVERSITY

**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS)
DEGREE EXAMINATION – APRIL 2013**

SUBJECT: PAPER IV: ESSAY

Thursday, April 11, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

 Draw diagram wherever necessary.

 Write an essay on:

Orthodontic and sleep disorders.

OR

Friction in orthodontics.

