

MANIPAL UNIVERSITY

MDS (ORTHODONTICS) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER I – APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS,
GROWTH, DEVELOPMENT AND PHYSICAL ANTHROPOLOGY

Monday, April 07, 2008

Time: 3 hours

Max Marks: 100

✍ **Answer ALL questions.**

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

1. Discuss in detail the development of dentition from dental age 6 to dental age 15. (30 marks)

2. Discuss the implant growth studies and their clinical relevance. (30 marks)

3. Write short notes on:
 - 3A. Nutrition and craniofacial growth.
 - 3B. “V” - Principle(40 marks)

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SUBJECT: PAPER II – CHILD PSYCHOLOGY, ETIOLOGY, CLASSIFICATION, DIAGNOSTIC PROCEDURE & TREATMENT PLANNING IN ORTHODONTICS

Tuesday, April 08, 2008

Time: 3 hours

Max Marks: 100

✍ **Answer ALL questions.**

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

1. Discuss the various types of Class II Div.I malocclusion and their treatment.

(30 marks)

2. How will you assess the treatment results using cephalometrics.

(30 marks)

3. Write short notes on:

3A. Electromyography in Orthodontics.

3B. Mixed dentition analysis.

(40 marks)

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SUBJECT: PAPER III – CLINICAL ORTHODONTICS AND DENTAL MATERIALS

Wednesday, April 09, 2008

Time: 3 hours

Max Marks: 100

✍ **Answer ALL questions.**

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

1. Discuss the functional resistance produced by Nickel Titanium alloy wire. (30 marks)

2. Discuss enclenchage consideration in Begg appliance of today. (30 marks)

3. Write short notes on: (40 marks)

3A. Braided arch wires.

3B. Lower anteriors in retention.

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SUBJECT: PAPER IV – ESSAY

Thursday, April 10, 2008

Time: 3 hours

Max Marks: 100

✍ **Draw diagrams wherever necessary.**

Write an essay on:

Evolution of straight wire technique.

OR

Discuss the important factors which determine stability of result of Orthodontic treatment.

