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## MANIPAL UNIVERSITY

**MDS (ORTHODONTICS) DEGREE EXAMINATION – APRIL 2009**

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

Monday, April 06, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL questions.**

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

1. Discuss the positional changes of mandibular first molar from birth to puberty.  
(30 marks)
  
2. Describe the anatomy of tongue, its function and its role in development of occlusion.  
(30 marks)
  
3. **Write short notes on:**
  - 3A. Evolution of lower jaw in vertebrates.
  - 3B. Canine guided occlusion.

(40 marks)



Reg. No.

## MANIPAL UNIVERSITY

**MDS (ORTHODONTICS) DEGREE EXAMINATION – APRIL 2009**

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

Tuesday, April 07, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions**

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

1. Discuss the role of localized dental disturbances in causing malocclusion.

(30 marks)

2. Discuss the recent advances in cephalometrics.

(30 marks)

3. **Write short notes on:**

3A. Psychological aspects of Orthognathic Surgery.

3B. Floating point norms.

(40 marks)



Reg. No.

## MANIPAL UNIVERSITY

**MDS (ORTHODONTICS) DEGREE EXAMINATION – APRIL 2009**

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

Tuesday, April 07, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions**

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

1. Discuss the role of localized dental disturbances in causing malocclusion.

(30 marks)

2. Discuss the recent advances in cephalometrics.

(30 marks)

3. **Write short notes on:**

3A. Psychological aspects of Orthognathic Surgery.

3B. Floating point norms.

(40 marks)



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## MANIPAL UNIVERSITY

MDS (ORTHODONTICS) DEGREE EXAMINATION – APRIL 2009

SUBJECT: PAPER III – CLINICAL ORTHODONTICS AND DENTAL MATERIALS

Wednesday, April 08, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions**

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

1. Discuss and describe the philosophy and use of functional regulator appliance.

(30 marks)

2. Discuss the treatment approach for CLP patient.

(30 marks)

3. **Write short notes on:**

3A. Transitional thermal temperature.

3B. Preadjusted Brackets.

(40 marks)



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# MANIPAL UNIVERSITY


**MDS (ORTHODONTICS) DEGREE EXAMINATION – APRIL 2009**


**SUBJECT: PAPER IV – ESSAY**

Thursday, April 09, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Draw diagrams wherever necessary.**

 **Write an essay on:**

Discuss Retention and Relapse.

**OR**

Discuss current status and importance of soft tissue facial analysis.

