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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)**  
**DEGREE EXAMINATION – JUNE 2018**

**SUBJECT: PAPER I – APPLIED BASIC SCIENCES: APPLIED ANATOMY, PHYSIOLOGY, DENTAL MATERIALS, GENETICS, PATHOLOGY, PHYSICAL ANTHROPOLOGY, APPLIED RESEARCH METHODOLOGY, BIO-STATISTICS AND APPLIED PHARMACOLOGY**

Monday, June 04, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

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- ✍ Answer ALL questions.
- ✍ Illustrate your answers with diagrams and flowcharts wherever possible.

✍ Long Essays:

1. Write on the growth and development, anatomy and normal function of the Temporomandibular Joint.  
(20 marks)
  
2. Write in detail about growth rotations of the jaws.  
(20 marks)
  
3. Write Short notes on:
  - 3A. Logarithmic Spiral concept of mandibular growth
  - 3B. Attritional occlusion concept
  - 3C. Physiology of tooth eruption
  - 3D. PAR index
  - 3E. Orthodontic light cure adhesives(7 marks × 5 = 35 marks)



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**DEGREE EXAMINATION – JUNE 2018**

**SUBJECT: PAPER II – ORTHODONTIC HISTORY, CONCEPT OF OCCLUSION AND ESTHETICS, CHILD AND ADULT PSYCHOLOGY, ETIOLOGY AND CLASSIFICATION OF MALOCCLUSION, DENTOFACIAL ANOMALIES, DIAGNOSTIC PROCEDURES AND TREATMENT PLANNING IN ORTHODONTICS, PRACTICE MANAGEMENT IN ORTHODONTICS**

Tuesday, June 05, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ALL questions.

✍ Illustrate your answers with diagrams and flowcharts wherever appropriate.

✍ Long Essays:

1. Discuss the role of respiration in etiology of Malocclusion.

(20 marks)

2. Discuss various methods of space analysis in permanent dentition.

(20 marks)

3. Short notes:

3A. Orthodontic Triage

3B. Little's Irregularity index

3C. Co-operation in adolescent patients

3D. Diagnostic set up

3E. De Paulo's Quadrilateral analysis

(7 marks × 5 = 35 marks)



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**DEGREE EXAMINATION – JUNE 2018**

**SUBJECT: PAPER III – CLINICAL ORTHODONTICS**

Wednesday, June 06, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL questions.**

✍ **Illustrate your answers with diagrams and flowcharts wherever appropriate.**

✍ **Long Essays:**

1. Describe in detail Maxillary expansion.

(20 marks)

2. Discuss on treatment of asymmetric malocclusion.

(20 marks)

3. **Write short notes on:**

3A. Pendulum appliance

3B. Retention

3C. Systemic effects of treatment

3D. Periodontal problems related to wear of appliances

3E. Trauma and orthodontics

(7 marks × 5 = 35 marks)



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**DEGREE EXAMINATION – JUNE 2018**

**SUBJECT: PAPER IV: ESSAY**

Thursday, June 07, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

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✍ Draw Diagram wherever necessary.

✍ Write an Essay on:

1. Orthodontic management of medically compromised patient.

**OR**

2. Early Treatment and its relevance to contemporary orthodontic practice.

