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MANIPAL ACADEMY OF HIGHER EDUCATION
MDS PART - I (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – MAY 2019
SUBJECT: PAPER I – APPLIED BASIC SCIENCES

Tuesday, May 07, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Write legibly.**
- ✍ **Illustrate your answers with diagrams and flowcharts wherever possible.**

1. Describe the anatomy of the muscles of mastication.
2. Write briefly on the effect of respiration on craniofacial morphology.
3. Write on bond strength tests done for Orthodontic adhesives.
4. Write on the role of genes in the etiology of cleft lip and palate.
5. Write briefly on alginate impression materials.
6. Write on Hemifacial Microsomia.
7. Write on the evolution of the TMJ.
8. Write on Chi square test.
9. Write on various sampling methods used in research.
10. Write on medically compromised patients.

(10 marks × 10 = 100 marks)



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MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – MAY 2019

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

Saturday, May 04, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ **Answer ALL questions.**

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

✍ **Long Essays:**

1. Write briefly on: 'Orthodontist: The smile architect.'

(20 marks)

2. Discuss treatment planning considerations in adult patient.

(20 marks)

3. **Short notes:**

3A. Psychological influences on timing of orthodontic treatment.

3B. Royal London space planning.

3C. Lower incisor extractions.

3D. Endocrine disturbances affecting tooth eruption.

3E. Limitations in growth prediction.

(7 marks × 5 = 35 marks)



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DEGREE EXAMINATION – MAY 2019

SUBJECT: PAPER III – CLINICAL ORTHODONTICS

Monday, May 06, 2019

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 root resorption following orthodontic treatment.

(20 marks)

2. Write in detail on Canine distraction.

(20 marks)

3. Write short notes on:

3A. Magnets in orthodontics

3B. Application of Nance appliance and its modification in orthodontic treatment.

3C. Indirect bonding

3D. TMA wires

3E. T loop

(7 marks × 5 = 35 marks)



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DEGREE EXAMINATION – MAY 2019

SUBJECT: PAPER IV: ESSAY

Tuesday, May 07, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 75

✍ Answer ANY ONE of the following.

✍ Draw Diagram wherever necessary.

✍ Write an Essay on:

1. Recent advances in orthodontic materials.

OR

2. Orthodontic practice management.

(75 marks)

