

Roll No. _____

**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)-FINAL YEAR
ANNUAL EXAMS; APRIL-MAY 2019**

**[SUB.:- APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS, PHYSICAL
ANTHROPOLOGY AND DENTAL MATERIALS; PAPER CODE: 02010301]**

Time: 03:00 Hrs.

Max. Marks: 75

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Long Answer of the following questions (Q.No.1 & Q.No.2):-

- Q.1** Define genes and describe various genes implicated in growth and development, along with their clinical significance. **(20)**
- Q.2** Discuss the internal reconstruction of bone and biochemical changes that takes place during orthodontic tooth movement. **(20)**
- Q.3** Write short notes on:- **(7x5=35)**
- a) Histomorphology of condylar cartilage.
 - b) Ideal properties and specific material for mini- implants.
 - c) Osteoprotegerin / RANKL in orthodontic tooth movement.
 - d) Growth trends, and growth estimation.
 - e) Systematic reviews and Meta analysis.
 - f) Comparison between Super cable and superelastic arch wire.
 - g) Bond enhancers.

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**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)-FINAL YEAR
ANNUAL EXAMS; APRIL-MAY 2019
[SUB.:- DIAGNOSIS AND TREATMENT PLANNING; PAPER CODE: 02010302]**

Time: 03:00 Hrs.

Max. Marks: 75

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt. in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Long Answer of the following questions (Q.No.1 & Q.No.2):-

- Q. 1** Discuss cephalometric criteria for functional appliance therapy. **(20)**
- Q. 2** Discuss errors in cephalometrics, radiography and clinical significance. **(20)**
- Q. 3** Write short notes on:- **(5x7=35)**
- a) Witzel grid
 - b) CBCT
 - c) Inadequacy of ANB Angle
 - d) Natural Head Position
 - e) Burstone soft tissue analysis

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**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)-FINAL YEAR
ANNUAL EXAMS; APRIL-MAY 2019
[SUB.: CLINICAL ORTHODONTICS AND MECHANOTHERAPY]
(PAPER CODE: 02010303)**

Time: 03:00 Hrs.

Max. Marks: 75

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Long Answer of the following questions (Q.No.1 & Q.No.2):-

- Q. 1** Discuss methods of anchorage preservation in high discrepancy case with vertical growth pattern. (20)
- Q. 2** Discuss in detail about frictionless mechanics in Orthodontics. (20)
- Q. 3** Write short notes on: - (5x7=35)
- a) Functional analysis
 - b) Surgical treatment objectives.
 - c) Classification and diagnosis of impacted canines.
 - d) Intrusion arches.
 - e) Invisible orthodontics.

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**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)-FINAL YEAR
ANNUAL EXAMS; APRIL-MAY 2019
[SUB.:- ESSAY; PAPER CODE: 02010304]**

Time: 03:00 Hrs.

Max. Marks: 75

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt. in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Write essay on any one: -

(75)

Q. 1 Evolution of Preadjusted Edgewise Appliance in Orthodontics.

OR

Controversies in Orthodontics.
