

Roll No.....

## THEORY ANNUAL EXAMINATION JULY-2021

<b>Program:</b>	<b>Orthodontics and Dentofacial Orthopedics</b>	<b>Year/Semester:</b>	<b>1<sup>st</sup> Year</b>
<b>Course/Subject:</b>	<b>Applied Basic Science: Applied Anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research Methodology, Bio-Statistics and Applied Pharmacology</b>	<b>Duration:</b>	<b>03:00 Hrs</b>
<b>Course/Subject Code:</b>	<b>02010101</b>	<b>Maximum Marks:</b>	<b>100</b>

**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.

**Q1. Write long notes on:**

**(10x10= 100)**

1. Discuss the bonding materials used in orthodontics.
2. Discuss Vitamin D and calcium metabolism.
3. Write a note on Nickel titanium wire material.
4. Describe histology and development of cleft lip and palate.
5. Discuss tests of significance in biostatistics.
6. Discuss concepts of normal growth.
7. Discuss maturation of oral functions.
8. Discuss types of bone formation and their role in the facial skeleton.
9. Discuss growth rotation in maxilla and mandible.
10. Historical longitudinal growth studies in orthodontics

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