

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**Post – Graduate Diploma Examination – 14-Jun-2022**

**Time: Three Hours**

**Max. Marks: 100 Marks**

**DIPLOMA IN ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS**  
**Applied Basic Sciences relevant to Orthodontics**  
**and Dentofacial Orthopedics - PAPER – I**  
**Q.P. CODE: 7733**

Your answers should be specific to the questions asked  
Draw neat, labeled diagrams wherever necessary. Answer all questions

**LONG ESSAYS**

**2 x 20 = 40 Marks**

1. Development of hard and soft palate. Describe cleft lip and palate.
2. Ideal properties of Orthodontics archwires. Write in detail about TMA wires.

**SHORT ESSAYS**

**6 x 10 = 60 Marks**

3. Role of prostaglandin in orthodontic tooth movement
4. Asperites
5. Butler's field theory
6. Evidenced based orthodontics
7. Influence of heredity on malocclusion
8. Safety valve mechanism

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