

**QP Code: 403002**

**Reg. No.:** .....

**Final Year BDS (Part I) Degree Supplementary Examinations  
January 2019**

**Orthodontics & Dentofacial Orthopedics**

**Time: 3 Hours**

**Max Marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x14=28)**

1. Enumerate the various theories of orthodontic tooth movement. Explain the piezo-electric theory of tooth movement. Explain the histological tissue response to light forces. (3+5+6)
2. Define anchorage in orthodontics. Give Moyer's classification of anchorage. Explain the different types of anchorage with suitable examples. (3+5+6)

**Short essays**

**(4x8=32)**

3. Enumerate methods of studying bone growth. Explain cortical drift and displacement with respect to craniofacial growth, giving suitable examples. (4+4)
4. Enumerate the different types of orthodontic tooth movement. Explain centre of resistance and centre of rotation in orthodontic biomechanics. (4+4)
5. What are skeletal maturity indicators. Explain the Bjork, Grave and Brown's method of assessing hand wrist radiographs. (4+4)
6. True and pseudo class III malocclusion. (4+4)

**Short notes**

**(10x4=40)**

7. Cephalocaudal gradient of growth.
8. Class II division 2 malocclusion.
9. Pericision.
10. Components of fixed orthodontic appliances.
11. Phases of tooth movement.
12. Adam's clasp.
13. Schools of retention.
14. Philosophy of the Frankel's appliance.
15. Ideal requirements of orthodontic arch wires.
16. Catlan's appliance.

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