

**Orthodontics & Dentofacial Orthopaedics****Time: 3 Hours****Max Marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essays****(2x14=28)**

1. What are the methods of bone formation (osteogenesis) and explain the process of remodeling of bone (8+6=14)
2. Enumerate the various methods of gaining space. Explain therapeutic extractions in orthodontics. Add a note on molar distalization. (4+8+2=14)

**Short essays****(4x8=32)**

3. Enumerate various theories of growth and explain sutural theory (3+5=8)
4. What are the stages of development of occlusion. Explain the changes taking place in development of occlusion between 6 and 12 years of age (3+5=8)
5. Describe Steiner's analysis and add a note on drawbacks of cephalometrics (6+2=8)
6. Enumerate the various theorems of retention. Add a note on removable retention appliance (5+3=8)

**Short notes****(10x4=40)**

7. Synchondroses
8. Dewey's modification of Angle's classification
9. Tipping tooth movement
10. Poorman's cephalometric analysis
11. Kesling's diagnostic set up
12. Y axis
13. Piezoelectricity
14. Soldering in orthodontics
15. Differences between activator and functional regulator
16. Pericision

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