

**QP Code: 111230**

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

**MDS Part I Degree Supplementary Examinations January 2020**

**Orthodontics and Dentofacial Orthopedics**

**Paper I – Applied Basic Sciences in Orthodontics**

**(2018 Scheme)**

**Time: 3 Hrs**

**Max marks: 100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essays**

**(10x10=100)**

1. Calcium metabolism.
2. Write the composition, polymerization and manipulation of irreversible hydrocolloid impression material used for orthodontic impression.
3. Code of conduct and doctor-patient relationship
4. What is biostatistics. Discuss significance tests.
5. Write the properties and characteristics of shape memory alloys.
6. Write pre-natal development of tongue and maturation of swallowing.
7. Write on chondrogenesis and contribution of Spheno-occipital Synchronosis in the craniofacial growth.
8. Discuss effects of NSAIDs on the molecular mechanisms mediating orthodontic tooth movement.
9. Methods to study growth.
10. Dental arch

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