

**QP Code: 111230**

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

**MDS Part I Degree Examinations June 2019**

**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. Define growth and development. Differentiate between growth and development. Enumerate the factors affecting growth and development.
2. Describe cephalocaudal gradient of growth and Scammons growth curve and its relevance on the face and body.
3. Drugs and its effects on the tooth movement.
4. Enumerate the differences in composition and properties between stainless steel, Titanium-molybdenum Alloy (TMA) and Nickel Titanium wires. Add a note on their uses in orthodontics.
5. 'Adenoid face' and its relevance in orthodontic diagnosis and treatment planning.
6. Vitamin D
7. Sampling methods.
8. Professional ethics and code of conduct
9. Define tarnish & corrosion. Write different types of corrosion and brief note on how to prevent it.
10. Enumerate theories of tooth eruption and add a short note on development of dentition.

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