

**QP CODE: 201230**

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

**MDS Part II Degree Supplementary Examinations January 2019  
(Orthodontics and Dentofacial Orthopedics)**

**Paper I – Growth and Development, Occlusion, Genetics, Child & Adult Psychology  
and Applied Material Science**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(2x20=40)**

1. Describe the functional matrix theory of Melvin Moss. Discuss the relevance of this theory at the cellular level quoting appropriate references.
2. Discuss in detail about arch wire material used in orthodontics.

**Short Essays**

**(6x10=60)**

3. Glass ionomer cement.
4. Growth hormone.
5. Secondary cartilage.
6. Wolf's law of bone transformation.
7. Attritional occlusion.
8. Human genome project.

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