

Sl.No: M21360

Course Code: 1440201

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(Deemed to be University), SALEM**

**M.D.S. DEGREE EXAMINATION – May 2019**

**Branch – IV – ORTHODONTICS AND DENTOFACIAL  
ORTHOPAEDICS**

**Paper - I – APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY,  
GENETICS, PHYSICAL ANTHROPOLOGY AND DENTAL  
MATERIALS**

Time: Three hours

Maximum: 100 marks

Answer **ALL** the questions

**LONG ESSAY:**

**(2 x 20 = 40)**

1. Explain in detail the growth and development of middle cranial fossa from prenatal stage of complete post natal maturation. Explain its secondary growth effects on maxillary and mandibular complex.
2. Explain in detail muscles of mastication and role of it in malocclusion.

**SHORT ESSAY:**

**(6 x 10 = 60)**

3. Growth hormone
4. Calcium homeostasis
5. Role of prostaglandins in orthodontic movement
6. Beta titanium
7. Stress strain curve
8. Enlows V principle

\*\*\*\*\*