

**March 2009**

**[KU 381]**

**Sub. Code: 2417**

**M.D.S. DEGREE EXAMINATION**

**Branch V – ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

**(Revised Regulations)**

**(For Candidates admitted from 2004 - 2005 onwards)**

**Paper I – APPLIED BASIC SCIENCES**

*Q.P. Code : 242417*

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions**

**Draw suitable diagram wherever necessary**

**I. Essay questions : (2 x 20 = 40)**

1. Briefly outline the molecular basis and genomics of heredity of the craniofacial region. Add a note on the inheritable types facial deformities and malocclusion.
2. Discuss the hard and soft tissue basis of mandibular growth rotations. Add a note on the impact of functional parameters in determining facial morphology.

**II. Write short notes on : (6 x 10 = 60)**

1. Thyroid hormone and the human dentition.
2. Actin and Myosin.
3. Prostaglandins and orthodontic tooth movement.
4. Trisomy No.21.
5. Retrodiscal pad.
6. Protein-calorie malnutrition.

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