

September 2009

[KV 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. Describe the normal development and maturation of the suck-swallow mechanism and its relationship to the human dentition. Add a note on the influence of deviant swallowing behaviour on facial morphology.
2. Outline the development of the branchial arches and discuss the embryologic basis of craniofacial and dental anomalies commonly seen in orthodontic practice.

II. Write short notes on :

(6 x 10 = 60)

1. Growth hormone and its regulation.
2. Adenoids and effects of its hypertrophy.
3. Muscles of facial expression and the smile line.
4. Hyoid bone and tongue posture.
5. Stem cells and their significance.
6. Genetic polymorphism.
