

ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

Paper-I: Applied Basic Sciences: Applied anatomy, Physiology, Dental Materials, Genetics, Pathology, Physical Anthropology, Applied Research Methodology, Bio-Statistics and Applied Pharmacology.
(Revised Scheme-5)

Q.P. CODE: 6043

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Answer All The Questions**10 X 10 = 100 Marks**

1. Outline the development of the branchial arches and discuss the embryologic basis of craniofacial and dental anomalies commonly seen in orthodontic practice.
2. Discuss role of vitamins and hormones on the growth and development of Jaws and teeth.
3. Briefly outline the molecular basis and genomics of heredity of the craniofacial region. Add a note on the inheritable types of facial deformities and malocclusion.
4. Explain in detail the aetiology of cleft lip and palate.
5. Discuss the role of cartilages at various sites in the pre and post-natal craniofacial development.
6. Describe briefly various materials used in the manufacture of arch-wires, giving their advantages, disadvantages, physical and chemical properties.
7. Give the origin, insertion and innervation of all the muscles of mastication. Describe the role played by them in the morphology of the masticatory apparatus.
8. Describe briefly impression materials used in orthodontics.
9. Describe in detail the method of Sample Size Determination.
10. Enumerate the different theories of growth. Discuss original functional matrix theory as first postulated by Melvin Moss.

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