

[Time: 3 Hours]

[Max. Marks: 100]

**ORTHODONTICS
APPLIED BASIC SCIENCES - PAPER I**

(Revised Scheme 2)

Q.P. CODE: 9445

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY

2 X 20 = 40 Marks

1. Discuss current concepts of orthodontic tooth movement with stress on the cellular, molecular and tissue level changes
2. Discuss growth rotations of the mandible and the clinical implications on diagnosis and treatment planning

SHORT ESSAY

6 X 10 = 60 Marks

3. Bisphosphonates and orthodontics
4. Twin studies in orthodontics
5. Importance of statistics in orthodontics
6. Frost mechanostat
7. Cognitive development of a child
8. Light sources in orthodontics

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