

MANIPAL ACADEMY OF HIGHER EDUCATION
MDS PART - I (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)
DEGREE EXAMINATION – NOVEMBER 2019

SUBJECT: PAPER I – APPLIED BASIC SCIENCES

Tuesday, November 12, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Write legibly.
- ✍ Draw diagrams wherever necessary.

1. Discuss in brief the Etio-pathology of TMD.
2. Write in brief about the cells involved in bone metabolism.
3. Discuss ANOVA.
4. Write about bending tests used in Orthodontics.
5. A 46-year-old female patient referred for your specialist advice has been undergoing orthodontic treatment for the last 1 year however the rate of tooth movement is abnormally slow. Her physician has prescribed OSTEOPOR (Alendronate). Discuss the possibilities with an explanation of the biologic basis for the same.
6. Write about Systematic Reviews in Orthodontics.
7. Discuss in brief about the properties and orthodontic applications of Beta Titanium.
8. Write in brief about PAR and IOTN.
9. Write about the role of tongue in etiology of malocclusion and relapse.
10. Write in brief about growth rotations.

(10 marks × 10 = 100 marks)

