

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM  
(Deemed to be University)**

**BDS DEGREE EXAMINATION – April 2021  
Fourth Year**

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

Time: Three hours

Maximum: 100 marks

**SECTION – A  
Answer ALL Questions**

**I. ESSAY: (1 x 15 = 15)**

1. Define growth. Enumerate various theories of growth. Discuss in detail with diagram the postnatal growth of mandible in context to the functional matrix theory.

**II. WRITE SHORT NOTES ON: (3 x 5 = 15)**

2. Anchorage in orthodontics.
3. Classify Malocclusion. Write briefly about Angle's classification.
4. Steiner's Analysis.

**III. WRITE BRIEFLY ON: (10 x 2 = 20)**

5. Growth Spurt .
6. Midline diastema.
7. Adams clasp and its modifications.
8. Chin cup.
9. Retention.
10. Thumb sucking.
11. Wolff's law.
12. Types of tipping.
13. Safety valve mechanism.
14. NiTi arch wires.

(p.t.o)

**SECTION – B**

**Answer ALL Questions**

**IV. ESSAY:** **(1 x 15 = 15)**

15. Classify myofunctional appliances. What are the indications, contraindications and mode of action of Activator.

**V. WRITE SHORT NOTES ON:** **(3 x 5 = 15)**

16. Headgears.  
17. Essential diagnostic aids.  
18. Andrew's key to normal occlusion.

**VI. WRITE BRIEFLY ON:** **(10 x 2 = 20)**

19. Jackson's Triad .  
20. Optimum orthodontic force.  
21. Proximal stripping.  
22. Distraction osteogenesis.  
23. Components of Removable appliance.  
24. Catalan's appliance.  
25. Labial bows.  
26. Frankfort mandibular plane angle.  
27. Pericision.  
28. Leeway space of Nance.

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