

**BACHELOR OF DENTAL SURGERY (2008 COURSE)**  
**FINAL B.D.S. Sem-I :SUMMER- 2022**  
**SUBJECT : ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS**

Day : Saturday

Time : 09:00 AM-12:00 PM

Date : 24-09-2022

**S-8987-2022**

Max. Marks : 70

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagram **WHEREVER** necessary.
  - 4) Answers to both the sections should be written in **SEPARATE** answer books.
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**SECTION – I**

- Q.1** Essay type questions (**ANY ONE**): **[10]**
- a) Define Growth and Development. Write a note on growth spurts and there in clinical significance in Orthodontics.
  - b) Classify oral habits. Write in detail the etiology, various effects and the management of tongue thrusting habits.
- Q.2** Write short notes on **ANY THREE** of the following: **[15]**
- a) Explain Ackermann and Profitt classification of malocclusion.
  - b) Ugly duckling stage
  - c) Slow Vs Rapid maxillary expansion
  - d) Explain Buccinator mechanism
- Q.3** Answer the following **ANY FIVE** of the following: **[10]**
- a) Difference between growth site and growth center.
  - b) Dewey's modification to Angles Class I malocclusion.
  - c) Define normal occlusion.
  - d) What is Dunlop's beta hypothesis?
  - e) What is Cephalocaudal gradient of growth?
  - f) Give eruption sequence of permanent teeth in maxillary arch.

**SECTION – II**

- Q.4** Essay type questions (**ANY ONE**): **[10]**
- a) Enumerate theories of tooth movement. Explain the pressure-tension theory in detail.
  - b) Define and classify myofunctional appliances. Explain Activator appliance in detail.
- Q.5** Write short notes on **ANY THREE** of the following: **[15]**
- a) Write active and passive components of fixed appliances with uses.
  - b) Piezoelectric theory of orthodontic tooth movement.
  - c) Write composition and properties of NiTi wire.
  - d) Explain Orthodontic vs Orthopedic force.
- Q.6** Answer the following **ANY FIVE** of the following: **[10]**
- a) Two types of canine retractors with indication.
  - b) Limitations of Orthopantogram (OPG).
  - c) Ponts Index.
  - d) Significance of Primate Spaces.
  - e) Enumerate various primary and secondary messengers involved in orthodontic tooth movement.
  - f) Enumerate states of deglutition.

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