

**Final B.D.S. Sem-I (2008 Course) : WINTER - 2018**  
**SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS**

Day : Saturday  
Date : 08/12/2018

**W-2018-3761**

Time: 09.00 AM TO 12.00 NOON  
Max. Marks: 70.

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**N.B.:**

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

- Q.1** Answer the following (Essay Type) (**ANY ONE**): **(10)**
- a) Discuss self-correcting malocclusions in developing dentition.
  - b) Enumerate theories of growth. Discuss functional matrix theory in detail.
- Q.2** Write short notes on (**ANY THREE**) **(15)**
- a) Etiology of deep bite.
  - b) Cone beam computed tomography.
  - c) Andrew's six keys of occlusion.
  - d) Buccinator mechanism.
  - e) Growth rotations of the mandible.
- Q.3** Answer the following (**ANY FIVE**) **(10)**
- a) Enumerate steps in orthodontic treatment planning.
  - b) Etiology of ectopic eruption of first molar.
  - c) What is incisal liability?
  - d) Differentiate between growth sites and growth centres with example.
  - e) What is orbital law of canine?
  - f) Ugly duckling stage.

**SECTION-II**

- Q.4** Answer the following (Essay Type) (**ANY ONE**): **(10)**
- a) A 12 year old boy reports to the clinic with a convex profile and vertical growth pattern. Discuss the probable etiology, differential diagnosis and treatment plan for the same.
  - b) Discuss the philosophy, classification, indications and types of Frankel's appliance.
- Q.5** Write short notes on (**ANY THREE**) **(15)**
- a) Reinforced anchorage.
  - b) Pendulum appliance.
  - c) Infant orthopedics.
  - d) Mixed dentition analysis.
  - e) Temporary anchorage devices.
- Q.6** Answer the following (**ANY FIVE**) **(10)**
- a) Enumerate stages of deglutition.
  - b) Four differences between Begg's appliance and preadjusted edgewise appliance.
  - c) Enumerate methods of gaining space during orthodontic treatment.
  - d) What is shape memory and superelasticity?
  - e) What is optimum orthodontic force?
  - f) What is reciprocal anchorage?
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