

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

**BDS DEGREE EXAMINATION – November 2020
Fourth Year**

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

SECTION A

Time: Twenty Minutes

Maximum: 20 marks

Register Number :

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Signature of the candidate

Signature of the Invigilator

Instructions to the candidates

- 1. Write your Register Number and sign at the place specified on the first page of this Question Booklet.**
- 2. Do not open this question booklet until Invigilator announces the commencement of the examination.**
- 3. Answer ALL the Twenty questions. They carry equal marks. No negative marking for wrong answers.**
- 4. Answers should be marked legibly in the SHEET provided in capital letters.**
- 5. THE QUESTION BOOKLET SHOULD NOT BE TAKEN OUT OF THE EXAMINATION HALL.**
- 6. Questions should not be copied and taken out of the Examination Hall. Any one found violating this rule shall not be permitted to write the examination and shall be sent out of the Hall.**
- 7. At the end of 20 minutes, when the Invigilator announces 'STOP WRITING' you must stop writing immediately. If the candidate tries to attempt to answer the questions after the prescribed time, their answer script becomes invalid.**
- 8. Hand over the questions booklet containing answer sheet to the invigilator when you finish answering or immediately after 20 minutes.**

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

SECTION-A (20X1=20 MARKS)

(Multiple choice questions)

Time: Twenty Minutes

Maximum: 20 marks

Select the most appropriate answer and answer in the answer sheet attached:

1. Hyalinization of PDL, due to excessive orthodontic force results in
 - A. Frontal resorption
 - B. Undermining resorption
 - C. Indirect resorption
 - D. All of the above

2. Inclined plane is used for
 - A. Developing crossbite
 - B. Developed crossbite
 - C. Deep bite
 - D. Open bite

3. Method of bite opening includes
 - A. Intrusion of posterior teeth and extrusion of anterior teeth
 - B. Extrusion of posterior teeth and intrusion of anterior teeth
 - C. mesialization of posterior teeth
 - D. Retroclination of incisors

4. One of the likely undesirable outcomes of serial extractions is
 - A. Proclination of incisors
 - B. Bite deepening
 - C. Spacing between incisors
 - D. Anterior crossbite

5. Activator is also known as
 - A. Group III appliance
 - B. Balter's appliance
 - C. Biomechanical working retainer
 - D. Winter appliance

(p.t.o.)

-- (2) --

6. Which components of the functional regulator are called 'pellots'?
- A. Buccal shields
 - B. Lower lingual pads
 - C. Canine extensions
 - D. None
7. Cortical drift is a growth process involving
- A. Deposition of bone
 - B. Resorption of bone
 - C. Deposition and Resorption
 - D. Bone bending
8. A chin cup must be worn by the patient for atleast
- A. 6 hours a day
 - B. 10 hours a day
 - C. 14 hours a day
 - D. 20 hours a day
9. Which of the following is not a function of labial bow
- A. Tooth movement
 - B. Retention
 - C. Attachment of auxillary
 - D. Anchorage
10. Torquing movement in orthodontics
- A. Is always deleterious to the tooth
 - B. Is movement of root without moving the crown
 - C. Cannot be accomplished in clinical practice
 - D. None of the above
11. Frontal cephalogram is used to
- A. Assess facial asymmetry
 - B. Overjet
 - C. Dental compensation in sagittal plane
 - D. Deep bite
12. Natal teeth are defined as
- A. Teeth present at birth
 - B. Teeth erupting in the 2nd – 3rd month
 - C. Teeth erupting between 6 months to 2 year
 - D. Teeth erupting after one year of age

(p.t.o.)

(Sl.No. M23103)

13. The most common sequence of eruption of permanent dentition in upper arch is
- A. 6-1-2-3-4-5-7
 - B. 6-1-2-4-3-5-7
 - C. 6-1-2-5-4-3-7
 - D. 6-1-3-2-4-5-7
14. Best retainer advised after the closure of midline diastema is
- A. Bonded lingual retainer
 - B. Hawley's retainer
 - C. Hawley's retainer with finger spring
 - D. Tooth positioner
15. Face mask is primarily used for
- A. Dorsal effect
 - B. Antero-posterior effect
 - C. Transverse effect
 - D. Ventral effect
16. The capillary blood pressure is
- A. 120/180 mm Hg
 - B. 110/70 mm Hg
 - C. Normal barometric pressure
 - D. 20-26 g/sq cm
17. The risk of severe root resorption is much greater for
- A. Maxillary incisors
 - B. Mandibular incisors
 - C. Maxillary canines
 - D. Maxillary 1st molars
18. The two blocks in the twin block functional appliance are angulated at
- A. 45°
 - B. 75°
 - C. 70°
 - D. 80°
19. Denholtz's appliance can be used for which of the following tooth movements
- A. Lower molar mesially
 - B. Lower molar distally
 - C. Upper molar distally
 - D. Lower molar buccally
20. Which of the following wires is better choice if alignment is needed
- A. Nitinol
 - B. TMA wire
 - C. Elgiloy wire
 - D. Stainless steel wire

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Time : Three hours

Maximum : 70 marks

Answer ALL Questions

Answer Section A in the Answer Sheet attached to it 20 marks – 20 minutes to be handed over to the invigilator immediately after 20 minutes

Answer Section B & C in the same answer book

Time : 2 hours 40 minutes

**SECTION – B & C
SECTION – B**

Maximum : 50 marks

I. Write an Essay on :

(1 x 10 = 10)

1. Enumerate various theories of growth. Discuss in detail about functional matrix theory.

II. Write short notes on :

(3 x 5 = 15)

2. Methods of gaining space in orthodontics
3. Merits and demerits of angle's classification
4. Ackerman Proffit system of classification

SECTION – C

III. Write an Essay on :

(1 x 10 = 10)

5. Enumerate various types of tooth movement. Discuss in detail tissue response to heavy orthodontic force.

IV. Write short notes on :

(3 x 5 = 15)

6. Etiology, clinical findings and management of tongue thrust habit.
7. Management of deep bite.
8. Interceptive orthodontics.