

WST-DCI-2019-MDS-ORTHO-P-2-SET-1-D

Printed Pages: 15

Sr. No. **50004**

WST-DCI-2019-MDS-ORTHO-P-2-SET-1-D

Total Questions: 150

Max. Marks: 150

Time: Three Hours

Roll No. (in figures)

(in words).....

.....

(Signature of Candidate)

I have checked the entries made above and in the OMR Sheet by the candidate.

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(Signature of invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/ INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

1. All the candidates must return the test booklet as well as answer-sheet to the Invigilator concerned before leaving the Examination Hall. If any candidate leaves the examination hall without handing over the test booklet/ answer sheet to the Invigilator, a case of use of unfair means/ misbehavior will be registered against him/ her in addition to lodging an FIR with the Police. The answer-sheet of such a candidate will not be evaluated.
2. The candidates must not do any rough work or writing work in the answer-sheet (OMR Sheet). All rough work is to be done in the test booklet.
3. Candidates will be required to darken the circle by using **blue/ black ball point pen** only.
4. Books, papers, slide rule, log table, cellular phone, pager, calculator or any other electronic gadget etc. are not allowed in the Examination Hall.
5. BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED THE CORRECT AND COMPLETE TEST BOOKLET CONTAINING SR. NO.1 TO 150 QUESTIONS, COMPLAINTS REGARDING MISPRINT ETC. WILL NOT BE ENTERTAINED 15 MINUTES AFTER THE EXAMINATION IS STARTED.

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1. Molar extrusion is contraindicated with
(A) Vertical growth pattern (B) Horizontal growth pattern
(C) Average growth pattern (D) None of the above
2. Interarch Elastics are contraindicated in
(A) Horizontal growth pattern (B) Vertical growth pattern
(C) Average growth pattern (D) None of these
3. Median diastema appearing at the age of 8 years generally requires
(A) Fixed appliance therapy (B) Removable appliance therapy
(C) Lip exercises (D) No treatment
4. In hydrocephaly, due to increased intracranial pressure, which of the following is true
(A) Cranial roof expands more than cranial base
(B) Cranial base expands more than cranial roof
(C) Cranial base and cranial roof expand by the same amount
(D) Both cranial base and cranial roof can expand unpredictably
5. Which of the following Synchronoses is a major contributor to growth?
(A) Spheno-ethmoidal (B) Spheno-occipital
(C) Intra occipital (D) None of the above
6. Cephalometric analysis are used to evaluate growth changes by superimposing on:
(A) Sella-nasion plane (B) Mandibular plane
(C) Palatal plane (D) Occlusal plane
7. Which of the following Orthodontic arch wire has maximum surface friction:
(A) Stainless steel wire (B) AJW wire
(C) TMA wire (D) Niti wire
8. A patient is involved in chronic mouth breathing, the clinical examination of patient reveals:
(A) Convex profile, long face (B) Concave profile, long face
(C) Convex profile, short face (D) Concave profile, short face
9. Percentage of posterior facial height to anterior facial height is known as:
(A) Jackson Ratio (B) Ackerman Ratio
(C) Morley Ratio (D) Jaraback ratio
10. Inclination angle indicates:
(A) Inclination of mandibular plane to cranial base
(B) Inclination of Palatal plane to cranial base
(C) Inclination of occlusion plane to cranial base
(D) Inclination of mandibular incisors
11. First order bends are :
(A) Torqueing bends (B) Anchor bends
(C) Tip back bends (D) In and out bends
12. Relapse after derotation of a rotated tooth can be prevented by
(A) circumferential Supracrestal Fibrotomy

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- (B) pericision
(C) long term retention
(D) All the above
13. Two hemi of mandible fuse at the symphysis around:
(A) one years of age (B) three years of age
(C) four years of age (D) Do not fuse at al
14. Average Korkhous palatal Index value is:
(A) 10-15% (B) 15-20%
(C) 40-50 % (D) 60-80%
15. Which of these is a nickelfree Orthodontic wire?
(A) Stainless steel wire (B) Elgiloy wire
(C) Cobalt chromium alloy wire (D) Beta titanium wire
16. Saddle angle is formed by joining these cephalometric points:
(A) Nasion-sella-Gonion (B) sella -articlare-Gonion
(C) Articulare -Gonion-Menton (D) Gonion -Menton –Nasion
17. Center of resistance of a tooth is based on the following EXCEPT:
(A) Size & shape of tooth (B) PDL attachment
(C) Tooth position (D) level of alveolar bone
18. Turbo wire in Orthodontics is:
(A) Dual flex wire (B) Esthetic wire
(C) Braided nickel Titanium wire (D) Copper nitiwire
19. "C" Anchorage in Orthodontics describes:
(A) Critical Anchorage (B) Moderate Anchorage
(C) Noncritical Anchorage (D) Temporary Anchorage
20. Acid etching removes the Enamel surface when etched by Orthophosphoric acid (35% for 20- 30 sec) by:
(A) 10 μ m (B) 50 μ m
(C) 100 μ m (D) 150 μ m
21. Uprighting spring is used to-
(A) derotate a tooth
(B) move the root in mesiodistal direction
(C) move the root in palatal direction
(D) closure of space
22. All of these are sign of vertical growth rotation of mandible except:
(A) Large gonial angle (B) Large mandibular plane angle
(C) High jaraback ratio (D) Deep antignonialnotch
23. Andrew's first key to normal occlusion deals with
(A) Crown angulation (B) Crown inclination
(C) Molar relationship (D) Plane of occlusion

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24. Column angle is highest in which malocclusion?
(A) Class 2 divisions 1 malocclusion (B) Class 2 division 2 malocclusion
(C) Bilateral posterior cross bite (D) Class 3 malocclusion
25. An impacted or unerupted maxillary canine may be located most accurately by means of
(A) Periapical and lateral jaw roentgenograms
(B) Periapical and occlusal roentgenograms
(C) Lateral jaw roentgenogram alone
(D) Cephalogram
26. All of these drugs may inhibit the Orthodontic tooth movement except:
(A) Bisphosphonates (B) doxycycline
(C) Indomethacin (D) Prostaglandin
27. In Harvold analysis, mandibular length is measured from:
(A) gonion to menton point (B) gonion to gnathion point
(C) condylen to pogonion point (D) gonion to pogoion point
28. Models for clear aligner therapy are made by the process called:
(A) Stereography (B) sterolithography
(C) Steroangiography (D) stereocranigraphy
29. Quenching the soldered assembly immediately after introduction of heat is to:
(A) Limit the flow of flux (B) Limit the flow of anti flux
(C) Limit the flow of solder (D) Limit the spread of heat
30. Arch space for the eruption of 3rd molars is created by:
(A) Apposition of alveolar process
(B) Resorption of posterior border of Ramus
(C) Resorption of anterior border of Ramus
(D) Apposition of lower body of mandible
31. Mordex normalis, rectus and apertus is a classification of malocclusion given by:
(A) Edward H Angle (B) Lischer
(C) Carabelli (D) Strang
32. Incisor classification for malocclusion was given by
(A) Ballard and Wayman (B) Simon
(C) Ackerman and Profitt (D) Katz
33. Index of complexity, outcome and need (ICON) was given by
(A) Grainger (B) Daniels and Richmond
(C) Shaw et al (D) None of the above
34. Gene involved in growth and development of cartilage and bone are
(A) Sox 9 (B) Indian hedgehog
(C) IGF (D) All the above

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35. The mechanism by which growth of naso maxillary complex occurs is
(A) Sutures (B) Nasal septum
(C) Periosteal and endosteal surfaces (D) All the above
36. Which is the theory that has been put forward to explain thumb sucking habit:
(A) Sear's oral drive (B) Palermo
(C) Eysenck's learning (D) All the above
37. Phases of tooth movement (initial, lag and post-lag) was given by
(A) Angle (B) Strang
(C) Burstone (D) Nanda
38. Syndrome associated with mandibular deficiency is
(A) Gorlin (B) Klinefelter
(C) Goldenhar (D) Crouzon
39. The number of line angles in a posterior tooth are:
(A) 4 (B) 6
(C) 8 (D) 10
40. The primordia responsible for facial development are readily observed by:
(A) Fifth week of intrauterine life
(B) Tenth week of intrauterine life
(C) Fifteenth week of intrauterine life
(D) Twentieth week of intrauterine life
41. The cranial base grows primarily by cartilage growth in
(A) Spheno-ethmoidal synchondrosis (B) Inter-sphenoidal synchondrosis
(C) Spheno-occipital synchondrosis (D) All the above
42. By 10 years which body tissue is 96 % complete ?
(A) Lymphoid (B) Neural
(C) General (D) Genital
43. The growth of maxilla ceases first in which plane of space ?
(A) Transverse (B) Vertical
(C) Antero-posterior (D) There is no set pattern
44. Which of the following is an Intrinsic muscle of tongue ?
(A) Superior longitudinal (B) Inferior longitudinal
(C) Vertical (D) All the above
45. What serves as a 'safety valve' for pubertal growth spurt:
(A) Maxillary intercanine dimension (B) Mandibular intercanine dimension
(C) Maxillary intermolar dimension (D) Mandibular intermolar dimension
46. Milwaukee brace is used for:
(A) Maxillary teeth (B) Mandibular teeth
(C) Scoliosis (D) All of the above

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47. Intra alveolar appliance is a synonym for:
(A) Palatal arch appliance (B) Lingual arch appliance
(C) Distal shoe appliance (D) Nance appliance
48. Bionator appliance was developed in:
(A) Germany (B) France
(C) Switzerland (D) England
49. Which type of headgear has better patient compliance?
(A) Cervical (B) Occipital
(C) Highpull (D) All the above
50. Centre of resistance of maxillary teeth is located -----?
(A) Between the roots of premolar teeth
(B) Between the roots of first molar teeth
(C) Between the roots of second molar teeth
(D) Midway of canine root
51. First self Ligating system introduced was:
(A) Adenta Time (B) Russel Lock
(C) Ormco EdgeLock (D) Oree speed
52. The play (degree) for 21.5 x 28 wire size used in 0.022 inch slot bracket is:
(A) 2.5 (B) 0.5
(C) 1 (D) 1.8
53. Which of the following is an intramatrix rotation of mandible
(A) Rotation of mandibular base in relation to cranium
(B) Rotation of mandibular plane in relation to cranium
(C) Rotation of mandibular plane in relation to core of mandible
(D) Rotation of mandibular base in relation to maxilla
54. For which orthodontic wire Hooke's law is not applicable:
(A) Stainless steel (B) TMA
(C) NiTi (D) A- NiTi
55. Which of the following orthodontic wire has least modulus of elasticity:
(A) Ni Ti (B) B-Titanium
(C) Stainless Steel (D) Co-Cr-Ni
56. The concept of Anchorage value of tooth was introduced by:
(A) Jose Carriere (B) Ricketts
(C) Burstone & Melson (D) R. Holdaway
57. Rickett's canine retraction spring is normally constructed with:
(A) 0.016 x 0.016 inch blue elgiloy (B) 0.016 x 0.022 inch blue elgiloy
(C) 0.016 x 0.022 inch TMA (D) 0.016 x 0.016 stainless steel

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58. GTRV ratio for individual with normal growth pattern from age 8 to 16 years is:
(A) 0.47 (B) 0.52
(C) 0.77 (D) 0.82
59. Recommended latency period in distraction osteogenesis:
(A) 1-2 days (B) 3-5 days
(C) 5-7 days (D) 7-10 days
60. Which doesn't accelerate tooth movement:
(A) Parathyroid hormone (B) Micro-osteoperforations
(C) Osteoprotegerin (D) Corticotomy
61. Which of the following researchers for the first time has shown that mandibular lengthening is by means of bone deposition & resorption on ramus of mandible?
(A) Moyers (B) Enlow
(C) Humphry (D) Hunter
62. Which of the following statements about mandibular growth is not correct?
(A) Mandibular growth follows neural growth curve
(B) Two halves of the mandible fuse by 16-18 months of age
(C) Main growth of mandible after birth occurs at the condyle, ramus & alveolar bone
(D) At birth, size of the mandible is sufficient to accommodate all primary teeth
63. Growth of maxillary sinus occurs via:
(A) Intramembranous bone formation (B) Endochondral bone formation
(C) Sutural formation (D) Apposition
64. Buccopharyngeal membrane is present till:
(A) 2nd week post conception (B) 3rd week post conception
(C) 4th week post conception (D) 5th day post conception
65. Labial bow in activator is constructed with:
(A) 0.6mm (B) 0.8 mm or slightly heavier
(C) 0.4 mm (D) 0.5 mm
66. According to Balter, which of the following is an important factor in treatment of developing dentition & skeletal relationship?
(A) Tongue (B) Lip
(C) Dentition (D) Cheek
67. Headgear should not be prescribed in which of the following situations
(A) Facial asymmetry is severe
(B) Posterior movement of mandibular teeth is needed

- (C) Maxillary teeth need only slight restraints from forward movement
(D) The mandibular plane angle is high
68. Which of the following is true when a helical loop is used?
(A) The force is accordingly reduced but the range of force activity is increased
(B) The force is accordingly increased but the range of force activity is decreased
(C) Both the force and range of activity are increased
(D) Both the force and range of activity are decreased
69. A force maintained at some appreciable fraction of the original force from one patient visit to the next is:
(A) Intermittent (B) Interrupted
(C) Continuous (D) None of the above
70. Speech problems associated with removable orthodontic appliance is ?
(A) Difficulty with linguoalveolar consonants & lingual vowel for several weeks
(B) Difficulty with lingual vowel for few days
(C) Difficulty with linguoalveolar consonants for a few days
(D) No difficulty at all
71. The major reason for not recycling & reusing brackets?
(A) Non recyclable
(B) Recycled brackets are efficient
(C) It is difficult to remove the bracket without distorting the base
(D) All of the above
72. The ratio of head to body at 2-3 months of Intra uterine life is:
(A) 1:2 (B) 1:8
(C) 1:12 (D) 1:24
73. Who was first to study the growth changes of the face?
(A) Bjork (B) Humphrey
(C) Kingsley (D) Hunter
74. Beta angle can be used to assess the craniofacial structure in which of the following dimension of space?
(A) Transverse (B) Vertical
(C) Sagittal (D) All of the above
75. Protein kinase enzyme are considered as:
(A) 1st messenger for tooth movement
(B) 2nd messenger for tooth movement

- (C) 3rd messenger for tooth movement
(D) Inhibitors for orthodontic tooth movement
76. Orthodontic bonding with porcelain surface is achieved by which of the following steps:
(A) Sandblasting the surface
(B) Silane treatment of porcelain surface before bonding
(C) 9% HF acid etching
(D) All of the above
77. Root control is needed for more than:
(A) 2-3 mm of crown movement
(B) 1-2 mm of crown movement
(C) 4-5 mm of crown movement
(D) 3-4 mm of crown movement
78. Which of the following is not Synostosis syndrome
(A) Treacher Collin Syndrome
(B) Apert Syndrome
(C) Calvin Case Pfeiffer Syndrome
(D) Crouzon Syndrome
79. The term orthodontia was given by:
(A) Angle
(B) Le-Foulon
(C) Angell
(D) Albert ketcham
80. The concept of driftodontics was popularized by:
(A) William Wilcko
(B) Ronald Roth
(C) Wick Alexander
(D) Howard Lang
81. Lateral Cephalogram of a patient shows W angle < 51 degree, it is suggestive of:
(A) Class I malocclusion
(B) Class II malocclusion
(C) Class III malocclusion
(D) Deep bite
82. Which Pharyngeal arch is absent in embryo during development:
(A) 2
(B) 5
(C) 7
(D) 6
83. Which loop has great mechanical advantage of no residual moment:
(A) Rickets
(B) Gjessing
(C) Opus
(D) Mushroom
84. Trifocal ellipse is:
(A) Braiders' arch form
(B) Rickets arch form
(C) Mushroom shaped form
(D) Bonwill Hawley form
85. Staging of tooth movement in aligners has maximum linear and relative velocity of:
(A) 0.18 mm and 2 degrees
(B) 2 mm and 4 degrees
(C) 0.25 mm and 2 degrees
(D) 2 mm and 6 degrees

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86. Laser etching cause thermal induced changes within the enamel to a depth of:
(A) 10-20 micrometer (B) 5-10 micrometer
(C) 20-30 micrometer (D) 15-30 micrometer
87. Alternative to etching with phosphoric acid:
(A) Maleic acid (B) Polyacrylic acid
(C) Self etching primers (D) All of the above
88. Important aspect of the mini aesthetic is:
(A) Incisor height/width ratio (B) Black triangle
(C) Connectors (D) Buccal Corridors
89. Which of the following is/are second order bend:
(A) Tip bends (B) Start up bends
(C) Artistic positioning bends (D) All of the above
90. Low level laser therapy uses wavelength of:
(A) 200-400 nm (B) 600-1000 nm
(C) 1500-2000 nm (D) 30-100 nm
91. Power ridges is a smart force feature used in:
(A) Lingual orthodontics (B) Labial orthodontics
(C) Aligner therapy (D) Myobrace therapy
92. Australian wire, which is round austenitic wire most commonly used with Begg,s differential light force technique is manufactured by:
(A) Heat treated and Cold drawn (B) Cold treated and Heat drawn
(C) Annealed and Cold drawn (D) Spring drawn and Cold treated
93. When bonding to amalgam is required in orthodontic practice which of the following is selected for the purpose?
(A) TEGMA (B) UDMA
(C) 4 - META (D) Cyanoacrylate
94. Which of the following metals show the property of Twinning?
(A) Stainless steel (B) Nickel- Titanium
(C) Cobalt - Chromium (D) All of the above
95. An increase in elastic properties of stainless steel can be obtained by:
(A) Heat treatment
(B) Work hardening

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- (C) Both of the above
(D) Once stainless steel is hardened , its elastic properties cannot be changed
96. In orthodontics, which of the following systems is used for Non metallic direct adhesion:
(A) Salt matrix adhesion (B) Resin matrix adhesion
(C) Both of these (D) None of these
97. Sensitisation of austenitic stainless steel occurs at temperature range of:
(A) 300-600 degree Celsius (B) 400-700 degree Celsius
(C) 400-900 degree Celsius (D) 500-1200 degree Celsius
98. Magnets are used in orthodontics practise for various purposes. The magnetic force follows the:
(A) Inverse square law (B) Coloumb's law
(C) Gravitational law (D) Law of electrostatic
99. Which of the following oral habits gets developed during intrauterine stage?
(A) Atypical swallowing (B) Tongue thrusting
(C) Thumb sucking (D) Lip sucking
100. Which was the first cephalometric analysis to emphasis horizontal relationships and interaction between vertical and horizontal proportion:
(A) Wits analysis (B) Sassouni analysis
(C) Ricketts analysis (D) Jaraback analysis
101. According to envelope of discrepancy, maximum amount of upper incisor retraction achieved is:
(A) 7mm (B) 16mm
(C) 9mm (D) 26mm
102. Which of the following is the most common cause of gummy smile:
(A) Tipped down pre maxilla (B) Gingival enlargement
(C) Short upper lip (D) Maxillary vertical excess
103. During which of the following orthodontic tooth movement , the centre of rotation is at the bracket slot:
(A) Controlled tipping (B) Torque
(C) Tipping (D) Rotation
104. The resiliency of orthodontic wire as regards to its cross section will:
(A) Increase with increase in cross section
(B) Decrease with increase in cross section

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- (C) Remains same
(D) Independent of cross sectional area
105. When two solid surfaces are pressed together or, one slide over the other, the real contact occurs only at a limited number of small spots called:
(A) Ridge (B) Groove
(C) Aperities (D) Peak
106. The unit of measure of moment is:
(A) Newton (B) g mm
(C) Grams (D) a. and b.
107. Nomogram was developed by:
(A) Burston (B) Kusy
(C) Andrew (D) Root
108. How much minimum clearance is needed for wire to slide in orthodontic bracket slot:
(A) 1 mil (B) 2 mil
(C) 3 mil (D) 4 mil
109. Which of the following is an example of dynamic anchorage:
(A) Sved plate (B) Transpalatal arch
(C) Tip back bends (D) Nance palatal button
110. Occlusal forces are tolerated mostly by which group of periodontal ligament fibres:
(A) Apical (B) Oblique
(C) Horizontal (D) Transeptal
111. Cyclic nucleotide level appears and increases in periodontal ligament tissue after how many hours of force application:
(A) 2 (B) 3
(C) 4 (D) 7
112. Small electrical potential preceding bone bending is called:
(A) Piezo electric signal (B) Streaming potential
(C) Alternate electric potential (D) Electromagnetic potential
113. Large, multinucleated cells in Howship's lacunae are:
(A) Osteoblast (B) Osteoclast
(C) Osteocyte (D) Cementoblast
114. The first bone formed in response to orthodontic loading is:
(A) Lamellar (B) Woven
(C) Compact (D) Composite
115. Which of the following provides the best description of natural dental arch:
(A) Catenary curve (B) Brader arch

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- (C) Bonwill Hawley's (D) Ellipse
116. Apertognathia refers to:
(A) Open bite (B) Deep bite
(C) Cross bite (D) Scissor bite
117. The concept of morphologic/ developmental fields was put forward by:
(A) Spemann and Mangold (B) Spemann
(C) Mangold (D) Moss
118. Which of the following indexes is used to assess the cleft treatment outcome:
(A) Goslon Yardstick (B) 5 year olds' index
(C) 10 year olds' index (D) All of the above
119. Homeobox Genes were first identified in which organism:
(A) Hedgehog (B) Drosophila melanogaster
(C) Homo sapiens (D) Drosophila suzukii
120. Which austenitic Stainless Steel is used for the fabrication of Stainless Steel Brackets:
(A) AISI 304 (B) AISI 316
(C) AISI 302 (D) AISI 308
121. The credit for developing the 0.018 slot goes to:
(A) Angle (B) Ricketts
(C) Steiner (D) Tweed
122. Bimetric Appliance was given by:
(A) Schudy (B) Alexander RG
(C) Ricketts (D) Burstone
123. Which appliance is also known as skeletalized Activator:
(A) Frankel II (B) Bimler Appliance
(C) Bionator (D) Twin Block
124. Which is the last synchondrosis which undergo ossification:
(A) Spheno—Ethmoid (B) Intersphenoid
(C) Spheno-occipital (D) Interethmoid
125. Nd:YAG laser has a wavelength of:
(A) 1064nm (B) 1584nm
(C) 514nm (D) 478nm
126. Magnets in Orthodontics was introduced by:
(A) Behrman & Egan (B) Blechman & Smiley
(C) Cerny (D) Dellinger

127. Gnathostatic study models are the orthodontic study models in which:
(A) Base of the mandibular cast is trimmed to correspond to the FH plane
(B) Base of the maxillary cast is trimmed to correspond to the FH plane
(C) Both a and b
(D) None of the above
128. Who coined the term "Hypodivergent" and "Hyperdivergent" :
(A) Bjork (B) Sassouni
(C) Schudy (D) Rakosi
129. Middle layer of Optiflex wire contains:
(A) Silicon Dioxide (B) Strain resistant Nylon
(C) Teflon (D) Silicon resin
130. Play in 0.022 inch slot bracket with a 0.19X0.25 wire:
(A) 10° (B) 2.3°
(C) 6.9° (D) 4.3°
131. Moment is defined as
(A) Force x distance from centre of resistance
(B) Force x distance from centre of rotation
(C) Force x modulus of elasticity
(D) Force x stiffness
132. Pierre Robbins Syndrome is characterized by
(A) Cleft palate with retrognathic mandible
(B) Cleft palate with prognathic mandible
(C) Cleft palate with orthognthic mandible
(D) Cleft palate with prognathic maxilla
133. Rapid maxillary expansion is assessed clinically by
(A) appearance of anterior crossbite
(B) appearance of median diastema
(C) appearance of generalized spaces in maxilla
(D) no change in the position of incisors
134. Which bend is used for anchorage control
(A) First order bend (B) Second order bend
(C) Third order bend (D) None of the above
135. Artistic positioning bend is
(A) First order bend (B) Second order bend
(C) Third order bend (D) None of the above
136. To prevent relapse of derotated tooth, which surgery is recommended
(A) Frenectomy
(B) circumferential supracrestal fiberotomy

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- (C) Both of them
(D) None of them
137. Molar distalization is contraindicated in individuals with
(A) Vertical growth pattern (B) Horizontal growth pattern
(C) Average growth pattern (D) Growing individuals
138. Serial extraction is done in individuals with
(A) Severe crowding (B) Anterior crossbite
(C) Proclined anterior teeth (D) Anterior open bite
139. Sliding mechanics for space closure is done with
(A) TMA wire (B) NiTi wire
(C) Stainless steel wire (D) Cu NiTi wire
140. Force decay is rapid with
(A) Stainless steel coil spring (B) NiTi coil spring
(C) Elastic chain (D) Both SS coil spring and NiTi spring
141. To avoid overhanging of mesiolingual cusp of maxillary first molar during expansion, it requires
(A) Lingual root torque (B) Increased Buccal root torque
(C) No torque (D) Bayonet bend
142. Which of the following is not corrected by functional appliance?
(A) Sagittal dysplasia (B) Transverse dysplasia
(C) Dental midline shift (D) Skeletal midline shift
143. The following modifications were done in MBT appliance
(A) Reduced tip in incisors (B) Increased torque in incisors
(C) Both a & b (D) Tip & torque remain unchanged
144. Individualized arch form in MBT was made after alignment with
(A) 016x022 inch NiTi archwire (B) 017x025 inch NiTi archwire
(C) 018x025 inch NiTi archwire (D) 019x025 inch NiTi archwire
145. Pterygoid response with functional appliance appears
(A) Within a few days (B) Within a few weeks
(C) Within a few months (D) Not at all
146. Ceramic brackets can be used
(A) For esthetic appearance (B) For reduced friction
(C) In individuals with Nickel allergy (D) For both reasons a & c
147. Inadequate sample size may be the cause of
(A) Type I error (B) Type II error
(C) Both Type I and Type II errors (D) Neither type I nor type II error
148. Alveolar bone loss leads to
(A) Apical shift of centre of resistance
(B) Occlusal shift of centre of resistance

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- (C) Shift of centre of resistance in either direction i.e apical or occlusal
(D) No change in centre of resistance
149. Moment to force ratio for root torquing should be
(A) 5:1 (B) 7:1
(C) 10:1 (D) 12:1
150. Deep bite correction in adults is preferred by :
(A) Both anterior intrusion and posterior extrusion
(B) Anterior intrusion only
(C) Posterior extrusion only
(D) None of these