APPROVED
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22 of April, 2026, protocol № 13

List of exam questions for the 3rd year exam
on "Non-removable prosthetics" in the 2025/2026 academic year

1. Medical ethics. Components of medical ethics. Ethical issues in dentistry and methods of their resolution.
2. Preparation of the oral cavity for prosthetics.
3. Nature of reactions observed in response to tooth preparation. Justification of the need for medicamentous preparation of patients before tooth preparation.
4. Methods of anesthesia and selection of drugs for tooth preparation. Methods of injection anesthesia and indications for their use depending on the number and topography of teeth to be prepared.
5. Possible complications during tooth preparation and their prevention.
6. Diseases leading to disruption of the anatomical shape, structure, and color of the hard tissues of the teeth.
7. Methods of examining patients with defects in the coronal part of the tooth.
8. Defects of hard tissues of teeth of carious and non-carious origin. Etiology. Clinic.
9. Classification of crown defects according to Black and Kurlandsky. Index of destruction of the occlusal surface of the tooth (IDOST).
10. Types of dental prostheses that restore the anatomical shape of the tooth.
11. Dental photo protocol and its significance in orthopedic dentistry clinic.
12. Main forms of medical reporting documentation in outpatient dental practice.
13. Impression trays. Varieties of impression trays and rules for their selection.
14. Definition of the concept of "impression", types, and classification of impressions.
15. Technique for obtaining alginate impressions from the lower and upper jaw. Evaluation of the obtained impression and possible errors made during its acquisition.
16. Classification of impression materials.

17. Technique for obtaining single- and double-step impressions, materials. Evaluation of the obtained impression and possible errors made during its acquisition.

18. Gingival retraction. Indications, methods, means, and technique of gingival retraction.

19. Inlays. Purpose of inlays. International classification of inlays. Indications for correcting crown defects with inlays.

20. Comparative assessment of inlays and direct restorations. Modern construction materials for making inlays.

21. Anatomical features of the structure of hard tissues and pulp of tooth crowns (safety zones). General principles for forming cavities for inlays.

22. Ways to redistribute chewing pressure on tooth tissues and inlays.

23. Direct and indirect methods of making inlays, clinical-laboratory stages. Features of taking impressions for making inlays.

24. Errors and complications in prosthetics of tooth defects with inlays and criteria for assessing the quality of the made inlay.

25. Veneers. Indications for prosthetics with veneers.

26. Main and auxiliary materials used in making veneers.

27. Modern technologies for making veneers.

28. Technique for making orthopedic constructions using CEREC (CAD/CAM).

29. Stages and tools for tooth preparation for veneers. Criteria for evaluating the quality of tooth preparation for veneers.

30. Clinical-laboratory stages of making veneers.

31. Modern materials for fixing veneers and their characteristics.

32. Errors and complications in prosthetics of tooth crowns defects with veneers.

33. Metal stamped crowns, advantages and disadvantages. Indications and contraindications for making metal stamped crowns.

34. Clinical-laboratory stages of making a metal stamped crown. Materials, tools, and equipment used for making metal stamped crowns.

35. Sequence of tooth preparation for a metal stamped crown. Evaluation of the quality of tooth preparation.

36. Indications and contraindications for making metal stamped crowns. Requirements for a metal stamped crown.

37. Rules and sequence of fixing metal stamped crowns. Errors and complications in prosthetics with a metal stamped crown.

38. Plastic crowns, advantages and disadvantages. Requirements for a plastic crown. Indications and contraindications for making a plastic crown.

39. Clinical-laboratory stages of making a plastic crown. Characteristics of materials used for making plastic crowns.

40. Techniques for tooth preparation for a plastic crown. Evaluation of the quality of tooth preparation.

41. Indications for making a self-curing plastic crown, methods of manufacturing.

42. Errors and complications in prosthetics with a plastic crown.

43. Combined crowns. Advantages and disadvantages. Indications and contraindications for making combined crowns.

44. Types of combined crowns. Comparative characteristics of constructions. Clinical-laboratory stages.

45. Errors and possible complications in prosthetics with combined crowns.

46. Solid crowns. Description of the construction. Advantages and disadvantages. Indications and contraindications for manufacturing.

47. Metal-acrylic crowns. Description of the construction. Advantages and disadvantages. Indications and contraindications for manufacturing.

48. Metal-ceramic crowns. Description of the construction. Advantages and disadvantages. Indications and contraindications for manufacturing.

49. Principles of tooth preparation for solid, metal-acrylic, and metal-ceramic crowns.

50. Clinical-laboratory stages of making solid crowns.

51. Clinical-laboratory stages of making metal-acrylic crowns.

52. Clinical-laboratory stages of making metal-ceramic crowns.

53. Temporary crowns. Methods of making temporary crowns.

54. Preparation of frameworks for metal-acrylic and metal-ceramic crowns, possible complications, and ways to address them. Preparation and evaluation of the quality of finished crowns in the clinic.

55. Fixation of crowns with a cast framework (temporary and permanent).

56. Errors in the manufacture of solid, metal-acrylic, and metal-ceramic crowns.

57. All-ceramic (metal-free) crowns. Their characteristics, indications, and contraindications for manufacturing.

58. Comparative characteristics of the main materials used for making metal-free crowns.

59. Indications and contraindications for the use of different types of metal-free crowns.

60. Principles of tooth preparation for metal-free constructions.

61. Techniques for taking impressions when making metal-free crowns. Requirements for impressions.

62. Digital impression technique. Preparation of the oral cavity and models for scanning, sequence of steps in making an all-ceramic crown using CEREC technology in the "Database" modeling mode.

63. Methods of manufacturing (sintering, milling, pressing) and clinical-laboratory stages of making various types of metal-free crowns.

64. Preparation and fixation of metal-free crowns.

65. Errors in the manufacture of metal-free crowns, ways to address them.

66. Posts and post-core constructions. Need for application. Requirements for posts.

67. Classification of restorative post-core constructions.

68. Post teeth, their varieties, indications, and contraindications for use. Comparative characteristics.

69. Cultured post-core constructions, their varieties, indications, and contraindications for use. Comparative characteristics.

70. Features of preparing the supra- and subgingival parts of the tooth for different types of post-core constructions. Rules for root canal obturation.

71. Complications in the manufacture of post teeth and cultured post-core constructions and their prevention.

72. Indications and contraindications for the use of elastic posts.

73. Types of non-removable dental prostheses used to restore the anatomical shape of tooth crowns. Indications for choosing non-removable prosthesis designs and construction materials.

74. The basic principles of tooth preparation for non-removable orthopedic constructions.

75. Methods of taking impressions and making models in non-removable prosthodontics, indications for choosing the impression method and model fabrication.

76. Comparative characteristics of metal-free constructions and technologies for their production.

77. Fixation of non-removable dental prostheses (temporary and permanent).

78. Etiology and pathogenesis of partial tooth loss.

79. Morphological and functional disorders occurring in the stomatognathic system with partial tooth loss.

80. Clinical symptoms of partial tooth loss.

81. Classification of dental arch defects according to Kennedy, rules for determining classes of dental arch defects. Classification of dental arch defects according to Gavrilov.

82. Secondary deformations of dental arches, pathogenesis, clinic.

83. Changes in the temporomandibular joint in the absence of teeth.

84. Primary and additional methods of examining patients with partial tooth loss.

85. Types of dental prostheses used to treat partial edentulism.

86. Indications for pulpectomy in the fabrication of bridgework prostheses.

87. Indications and contraindications for non-removable prosthodontics depending on the topography and nature of the defect.

88. Preparation of the oral cavity for the fabrication of bridgework prostheses.

89. Odontogram, definition. Rules for filling out an odontogram and creating a graph.

90. Clinical-biological foundations of prosthetics with bridgework prostheses. Endurance and reserve forces of the periodontium.

91. Factors determining the choice of bridgework prosthesis construction.

92. Selection of abutment teeth and assessment of their condition.

93. General characteristics of stamp-soldered bridgework prostheses. Indications and contraindications. Advantages and disadvantages of stamp-soldered bridgework prostheses.

94. Clinical-laboratory stages of making stamp-soldered bridgework prostheses.

95. General characteristics of cast metal bridgework prostheses. Indications and contraindications. Advantages and disadvantages of cast metal bridgework prostheses.

96. Clinical-laboratory stages of making cast metal bridgework prostheses.

97. General characteristics of metal-acrylic bridgework prostheses. Indications and contraindications. Advantages and disadvantages of metal-acrylic bridgework prostheses.

98. Clinical-laboratory stages of making metal-acrylic bridgework prostheses.

99. General characteristics of metal-ceramic bridgework prostheses. Indications and contraindications. Advantages and disadvantages of metal-ceramic bridgework prostheses.

100. Clinical-laboratory stages of manufacturing metal-ceramic bridgework prostheses.

101. Preparation of hard tissues of abutment teeth when making solid bridgework prostheses.

102. Preparation of hard tissues of abutment teeth when making combined (metal-ceramic and metal-acrylic) bridgework prostheses.

103. Temporary bridgework prostheses. Justification for the necessity of use. Methods of making temporary bridgework prostheses.

104. Justification for the choice of impression material in the fabrication of bridgework prostheses.

105. Impression techniques. Criteria for evaluating the quality of impressions in the fabrication of different types of bridgework prostheses.

106. Intermediate part of a bridgework prosthesis. Varieties of intermediate parts depending on clinical conditions and prosthesis fabrication technology.

107. Concept of central occlusion position and centric relation. Signs of central occlusion in intact dental arches and orthognathic occlusion.

108. Main options for determining and fixing central occlusion in partial dental arch prosthetics.

109. Methods for determining and fixing central occlusion. Materials used for registering central occlusion in partial tooth loss.

110. Errors in determining central occlusion and methods to correct them.

111. Criteria for assessing the quality of fabrication of a bridgework prosthesis.

112. Stages of checking the construction of a bridgework prosthesis.

113. Possible errors made in the fabrication of bridgework prostheses and methods to correct them.

114. Fixation of a bridgework prosthesis (temporary and permanent). Rules for fixation. Possible errors made during the fixation stage of bridgework prostheses and ways to correct them.

115. Recommendations to the patient, doctor's tactics in case of damage to solid, metal-acrylic, and metal-ceramic prostheses.

116. Types of adhesive prostheses. Indications and contraindications for their fabrication.

117. Justification and selection of adhesive prosthesis construction.

118. Fixation of adhesive prostheses.

119. Technologies for manufacturing adhesive prostheses.

120. General characteristics of metal-free bridgework prostheses.

121. Features of tooth preparation for metal-free orthopedic constructions.

122. Fixation of metal-free orthopedic constructions.

123. Materials for making ceramic prostheses using CAD/CAM systems.

124. Clinical-laboratory stages of manufacturing crowns using CAD/CAM technologies.

125. Advantages and disadvantages of composite and glass ionomer cements.

126. Adhesive fixation of metal-free orthopedic constructions.

127. Advantages and disadvantages of bridgework prosthetic restorations.

128. Errors and complications in the prosthetic treatment of patients with partial tooth loss using bridgework prostheses.

129. Theoretical foundations of dental implantation. Concept of osseointegration of implants. Types of osteogenesis in implantation.

130. Types of dental implants, classification.

131. Examination of patients for prosthetic restoration of edentulous areas using implants.

132. Requirements for materials used in the fabrication of dental implants.

133. Indications and contraindications for prosthetic restoration using dental implants.

134. Varieties and characteristics of structural elements of dental implants of different types.

135. Indications and contraindications for making dental prostheses on dental implants supported by various types of abutments.

136. Features of designing prostheses supported by different types of abutments.

137. Technique for obtaining impressions with a "closed tray" when making prostheses supported by dental implants. Indications and choice of impression material.

138. Technique for obtaining impressions with an "open tray" when making prostheses supported by dental implants. Indications and choice of impression material.

139. Comparative characteristics of cemented and screw-retained fixed dental prostheses supported by dental implants.

140. Evaluation of the quality of fabrication of fixed prostheses supported by dental implants. Possible errors and complications, ways to address them.