

MEDICAL UNIVERSITY – SOFIA
FACULTY OF DENTAL MEDICINE
DEPARTMENT OF PROSTHETIC DENTAL MEDICINE

EXAMINATION QUESTIONARY

STATE EXAMINATION

IN

PROSTHETIC DENTAL MEDICINE

2020

1. Biomechanics of masticatory system (apparatus). Masticatory pressure. Formulation of the functional/mechanical balance of periodontium.
2. Masticatory system (apparatus) disorders. Theories of disorders' etiology. Reactivity and resistance.
3. Masticatory system (apparatus) disorders. Internal and external etiological factors.
4. Disorder pathogenesis. Pathogenetic mechanisms. Basic pathogenetic mechanisms in medicine.
5. Functional pathology in dental medicine. Interrelation of categories shape - function - reaction; part - whole; local - general; peripheral - central. Functional terminology.
6. Functional pathology of masticatory system. Mechanisms.
7. Gnathology. Basic and border positions of the mandible.
8. Patient examination (testing) in prosthetic dental medicine. Registration. Anamnesis. Extraoral and intraoral examination.
9. Patient examination in prosthetic dental medicine. Paraclinical tests: radiography, pathogalvanism, allergy, Periotest, T-scan. Clinical thinking.
10. Methods for examination of speech. Phonography. Sonography. Dynamic palatography.
11. Diagnosis in prosthetic dental medicine. Prognosis.
12. Indications and contraindications for prosthetic dental treatment.
13. Treatment plan, epicrisis, medical records (disorder history).
14. Preparing oral cavity for prosthetic treatment.
15. Godon phenomenon. Etiology, pathogenesis and treatment.
16. Types of impressions in prosthetic dental medicine – basic materials and methods.
17. Prosthetic treatment of destructio coronae dentis. Indications and contraindications. Quality requirements to artificial crowns.
18. Temporary artificial crowns. Types and methods for fabrication.
19. Permanent artificial crowns. Full and partial crowns. Clinical stages.

20. Preparation of teeth for complete veneer crowns. Methods.
21. Methods for restoration of severely destroyed teeth. Post and core restorations (post crowns).
22. Impressions and impression methods for complete crowns. Advantages and disadvantages. Protection of the prepared abutments.
23. Adjusting and long term (permanent) fixing of the crown.
24. Removal of complete veneer crown.
25. Clinics of the various types of complete crowns. Clinical stages.
26. Prosthetic treatment of abrasio dentis.
27. Prophylactic and treatment of adentia partialis. Etiology. Pathogenesis. Prognosis. Classification of partial edentulism.
28. Basic principles and approaches for prosthetic treatment of partial edentulism. Indications and contraindications. Construction and medico-biological principles.
29. Advantages and disadvantages of fixed and removable dental prostheses.
30. Prophylactic and treatment of adentia partialis with fixed (bridge) restorations. Terminology, indications and contraindications.
31. Planning of a fixed (bridge) prostheses.
32. Clinics of bridge prosthesis. Clinical stages.
33. Bridge prostheses with various types of retainers: all metal crowns, metal acrylic crowns, metal ceramic crowns, full ceramic crowns.
34. Bridge prostheses with retainers partial crowns. Adhesive bridge prostheses with extracoronal retainers.
35. Bridge prostheses with cantilever pontic. Full arch fixed restorations - long span bridges.
36. Bridge prostheses with double crown attachments (telescopic crown attachments). Immediate bridge prostheses.

37. Materials and technologies for fabrication of metal ceramic crowns and bridges.
38. Materials and methods for temporary and permanent luting of fixed restorations.
39. Acrylic resin materials and master cast materials used in the prosthetic dental medicine.
40. Dental alloys, used in prosthetic dental medicine.
41. Classification of removable partial dentures. Preparation for prosthetic treatment of partial edentulism with removable dentures. Analysis of the basic factors.
42. Prosthetic treatment with removable partial denture. Selection of denture type and components.
43. Planning the partial denture with resin denture base.
44. Planning the metal framework removable partial denture. Planning principles.
45. Components for retention and stability of partial dentures - retainers. Types of retainers, basic functions.
46. Clinics of removable partial dentures. Clinical stages.
47. Removable partial denture with bent wire clasps. Immediate partial denture.
48. Removable partial denture with resin (Kemeny) clasps. Removable partial denture without clasps, with modified labial flanges, with lingual bar.
49. Metal framework removable partial denture.
50. Combined prosthetic treatment using special retainers. Removable partial denture with precision attachments.
51. Removable partial denture with double crown attachments (telescopic crown attachments). Milling technique.
52. Removable partial denture with Dolder bar – bar and sleeve attachment.
53. Overdentures.
54. Occlusal trauma. Trauma of hard tooth structures.
55. Occlusal trauma. Trauma of periodontium.

56. Occlusal trauma. Trauma of masticatory muscles.
57. Occlusal trauma. Trauma of temporo mandibular joints - TMJ.
58. Parafunction. Bruxism and bruxomania.
59. Occlusal contacts. Premature occlusal contact and occlusal interference (deflective occlusal contact).
60. Selective grinding.
61. Teeth splinting. Temporary splinting – fixed and removable.
62. Teeth splinting. Permanent splinting – fixed and removable.
63. Indicators that determine the splinting type – number and condition of teeth, direction of mobility, types of stabilization.
64. Prophylactics and treatment of completely edentulous patients. Extraoral and intraoral changes – mucosa, bones, muscles and ligaments, TMJ, saliva.
65. Prophylactics and treatment of completely edentulous patients. Functional changes in speech, mastication, esthetics and neurology.
66. Indications and contraindications for treatment of completely edentulous patients. Conditions – neurogenic, allergy, professional, financial. Classification of complete dentures.
67. Surgical preparation for treatment of completely edentulous patients. Mucosa and bone surgery.
68. Impression for complete dentures – types, materials, impression trays.
69. Impression methods. Locomotive tests for upper and lower jaw.
70. Maxillo-mandibular relationship. Methods for registration of occlusal plane, vertical dimension of occlusion, centric position.
71. Centric position fixation. Lines' marking, selection of denture teeth and type of arrangement.
72. Try in of the trial denture. Try-in spatula.

73. Delivery of complete dentures. Fitting, retention, stability, recommendations for the patient.
74. Relining complete dentures. Methods.
75. Special treatment methods for completely edentulous patients – prognathia, progenia, well developed tuber maxillae, gagging reflex, microstoma, allergy.
76. Complete denture with metal plate. Immediate and intraalveolar complete denture.
77. Patient examination and treatment planning in Dental Implantology. Indications and contraindications. Paraclinical examination. Surgical technique for implant placement.
78. Implant prosthetic restorations. Planning of fixed and removable prostheses. Prosthetic clinical approaches.
79. Subperiosteal implants.
80. Prosthetic treatment of children.
81. Patient's adaptation to complete dentures.
82. Injuries of the masticatory apparatus as a result of prosthodontic treatment. Hard tooth structure, periodontium, dental arches, mucosa.
83. Injuries of the masticatory apparatus as a result of prosthodontic treatment. Allergy, pathogalvanism, changes of intermaxillary relationship, TMJ, muscles.
84. Costene syndrome. Trauma of discus articularis. Habitual luxation of TMJ.
85. Mechanotherapy of masticatory muscles. Boxer splint.
86. Maxillofacial disorders - characteristics. Congenital and acquired disorders.
87. Types of maxillo-facial devices and dentures. Post resection prosthetic treatment.
88. Prosthetic treatment of palatal defects. Obturators.
89. Ectoprotheses (epitheses).