

Gnathology – exam questions

1. The idea of gnathology. Definition of Gnathology.
2. The idea and function of the masticatory system.
3. Construction and parts of the temporomandibular joint.
4. Geometric characteristics of the dental arches, and their importance.
5. Detailed anatomy of the premolar and molar teeth.
6. Anatomy and task of the articular disc.
7. Anatomy of the joint capsule and ligaments of the TMJ, and their task.
8. Muscles moving the mandible.
9. Physiology of the mouth opening.
10. Physiology of the closure.
11. Basic positions of the mandible.
12. Rest positions of the mandible, centric relation.
13. Intercuspal position, centric occlusion.
14. Retruded contact position (centric relation), RCP-ICP slide.
15. Cephalometric reference points and planes of the skull.
16. Movements of the mandible.
17. Definition of the Posselt diagram (envelope).
18. Occlusal contacts of the natural teeth
19. Cusp-marginal ridge contacts
20. Cusp-fossa contacts
21. Occlusal concepts
22. Phases of mastication
23. Occlusion types of the natural dentition
24. Organic occlusion (Canine guidance)
25. Unilateral ballance type (group function) occlusion
26. Ballanced occlusion
27. Occlusal concepts for removable dentures
28. Physiology of the opening and closing movement
29. Physiology of the protrusion and the retrusion
30. Lateral excursion. Bennett-movement
31. The Bennett-angle, immediate sideshift, shift-angle

32. Occlusal concepts for different dental appliances
33. Examination of occlusion. Occlusal analysis
34. Component parts of the simple hinge, and its practical application
35. Types of articulators
36. Characteristics of the articulators
37. Component parts of the articulators, and their practical application
38. Characteristics of the average value articulators
39. Characteristics of the semiadjustable articulators
40. Characteristics of the fully-adjustable articulators
41. The aim and use of the facebow
42. Types of the facebows
43. Mounting of articulators
44. Mounting by the help of the Bonwill-triangle.
45. Methods used for the setting of articulators
46. Positional bite registration
47. Graphic registration methods
48. Electronic registration methods
49. Signs, symptoms and diagnosis of the TMJ-diseases
50. Etiology of the temporomandibular joint diseases
51. Deviation, deflection, and their differential diagnostic importance
52. Criteria of the physiologic occlusion
53. Conditions of occlusal adjustment, course of occlusal adjustment
54. Therapy of the temporomandibular joint disorders
55. Types of the occlusal splints
56. Hormonal control of the bone tissue
57. Process of the harmonized bone apposition
58. Definition of traumatic occlusion
59. Primary and secondary traumatic occlusion
60. Connection between traumatic occlusion and plaque related periodontal disease