**Questions for the Orthodontics exam**

**for Year 5 students, Semester IX**

1. General etiological factors of dento-maxillary anomalies. Description.
2. Loco-regional etiological factors of dento-maxillary anomalies. General description.
3. Local etiological factors of dento-maxillary anomalies. Description.
4. The impact of dental caries and its complications on the development of the dentomaxillary system.
5. Reasons for presenting patients to the orthodontist. Description of hereditary-collateral and personal antecedents.
6. Exobuccal examination of the orthodontic patient. Facial profile.
7. Endobuccal examination of the orthodontic patient. The study of static occlusion.
8. Examination of the muscles and functions of the dento-maxillary system.
9. Examination of mandibular dynamics. Physiology of mandibular kinematics.
10. The facial index and its evaluation. Types of facial growth.
11. Photographic examination. Interpretation of the frontal and profile photos.
12. Radiological examination with intraoral film. Varieties.
13. Orthopantomography. Realization technique. Elements of orthodontic diagnosis.
14. The lateral cephalometric. Definition, realization technique, types.
15. Computed tomography in orthodontics.
16. Cephalometric analysis. Skin and skeletal points.
17. Methods of cephalometric interpretation used in orthodontic practice.
18. ​​Special methods for evaluation the functions of the dento-maxillary system. Electromyography, myotonometry, palatography.
19. Biomechanics of orthodontic forces in dental movements.
20. Orthodontic force. Definition, classification of orthodontic forces. The importance of the optimal force in the dental movements according to the reference plans.
21. Types of dental movements. Negative effects of tooth movements.
22. Tissue restructuring during the horizontal and vertical displacement of teeth in orthodontic treatment.
23. Dental impressions in orthodontics. Impression materials. Tools.
24. Digital impressions in orthodontics. Advantages and disadvantages.
25. Classification of impression materials used in orthodontics.
26. Orthodontic appliances. Definition. Classification of orthodontic appliances.
27. Early tooth loss. Definition. Mobile and fixed space maintainers. Indications for use.
28. Removable orthodontic appliances. Definition. Advantages and disadvantages. General description of the components.
29. Removable orthodontic appliances. Indications, contraindications for use. Anchorage elements of the removable orthodontic appliances.
30. Orthodontic plate. Types. The base and active elements of removable orthodontic appliances.
31. Mobile (functional) orthodontic appliances. Definition. Advantages and disadvantages.
32. Orthodontic trainer. Components. Indications.
33. Andresen-Haupl activator. Components. Indications.
34. Frankel functional regulator. Components. Varieties. Indications for use.
35. Balters bionator. Components. Varieties. Indications for use.
36. Classification of dento-maxillary anomalies by Angle.
37. German classification of dento-maxillary anomalies.
38. French classification of dento-maxillary anomalies.
39. Lower jaw retrognathism. Etiology. Clinical peculiarities. Diagnostic. Treatment.
40. Dental tortoposition. Definition. Clinical peculiarities. Diagnostic. Treatment.
41. Dental anomalies of shape and structure. Clinical peculiarities. Diagnostic. Treatment.
42. Numeric dental anomalies. Varieties. Clinical peculiarities. Diagnostic. Treatment.
43. Dental volume anomalies. Definition. Varieties. Criteria for determining the macrodontia.
44. Dental eruption disorders. Treatment goals.
45. Dental inclusion. Definition. Clinical aspects. Orthodontic treatment.
46. Dental ectopia. Definition. Orthodontic treatment of dental ectopia.
47. Dental transposition. Definition. Treatment of dental transposition.
48. Entopia of teeth. Definition. Causes. Clinical peculiarities. Diagnostic. Treatment.
49. Perimaxillary soft tissue anomalies. Varieties and their impact on the dento-maxillary system. Diagnostic. Treatment.
50. Dento-alveolar disharmony with dental crowding. Causes. Clinical manifestations.
51. Methods of creating space on the dental arch for orthodontic purposes. Treatment of dental crowding.
52. Diastema. Clinical varieties. Etiology. Clinical peculiarities. Treatment.
53. Dental eruption disorders. Causes. Diagnostic and treatment methods.
54. Class I malocclusion by Angle. Etiology, pathogenesis, clinical varieties, diagnosis.
55. Class II/1 malocclusion by Angle. Definition. Etiology, pathogenesis. Clinical peculiarities.
56. Class II/1 malocclusion by Angle. Differential diagnosis. Treatment goals.
57. Class II/2 malocclusion by Angle. Definition. Etiology. Clinical peculiarities. Treatment.
58. Class III malocclusion by Angle, functional form. Causes. Clinical peculiarities. Principles of treatment.
59. Class III malocclusion by Angle, false form. Etiology. Clinical peculiarities. Treatment.
60. Class III malocclusion by Angle, true form. Etiology. Clinical peculiarities. Treatment.