

STATE EXAM
CLINICAL DENTISTRY – ORTHOPAEDICS

1. Hydrocolloid impression materials.
Stabilisation elements of of removable dentures, connectors.
Classification of orthodontic anomalies.
2. Reconstruction of interjaw relations in partially edentulous jaws.
Dowel core, properties, indications, post crown, root reconstruction.
Indication of orthodontic treatment.
3. General properties of metals, their importance in prosthetic dentistry.
Fixed appliances in frontal area, suitable abutment construction, complete solution.
Ideal occlusion, normoocclusion, 6 keys of occlusion.
4. Temporomandibular joint, its anatomy, physiology and its importance in prosthetics.
Metal full crowns, their types, indications, evaluation.
Intrauterine development of jaws and teeth.
5. Elastomers, their, properties and usage.
Support, bracing and reciprocative elements of removable dentures.
Postnatal growth and development of jaws and dental arches.
6. Muscles of masticatory system, anatomy and physiology.
Fasete crowns, types, indications and work procedures.
Orthodontic diagnosis.
7. Physiology of mastication.
Division of pontics according to shape and relation to the mucosa.
Etiology of orthodontic anomalies.

8. General principles of abutment preparation, protection of dental and parodontal tissues.
3 class dentures }Voldřich], characteristics, construction elements.
Prevention and prophylaxis of orthodontic anomalies.
9. Importance of prosthetic treatment (rehabilitation, correction, splinting, prevention).
Implants in prosthetic dentistry.
Development of permanent molar occlusion.
10. Artificial resins, rebasing of dentures and their repairs. Plastic materials).
Articular obstacles in natural dentition, their origin and manner of treatment.
Crowding and spacing.
11. Ceramic materials in prosthetic dentistry.
Types of abutment constructions, indications.
Anomalies in tooth number, shape and size.
12. Examination and diagnostics in prosthetics - biological factor, evaluation of dentition and abutments, setting out a treatment plan.
Removable bridge.
Study model analysis.
13. Mistakes and errors occurring during the manufacture of plastic materials and results in the new denture.
Cooperation of a prosthodontist with an orthodontist and other dental specialists.
Cephalometric analysis..
14. Precious metal alloys.
Arrangement of artificial teeth – functional and aesthetic aspects. Try – in procedure.
Timing of orthodontic treatment.

15. Preprosthetic modifications of dentition and jaws.
Practical procedure during reconstruction of interjaw relations in edentulism. Occlusal plane, definition, importance, way of determination.
Orthodontic treatment planning.
16. 2 class dentures (Voldřich), indications, construction elements.
Relining of complete dentures, indications, working procedures.
Removable orthodontic appliances.
17. Basic position of mandible, importance, Method of determination.
Survey of working procedure during manufacture of extended fixed bridge, its importance and indications.
Functional appliances and dentofacial orthopedics.
18. Basic principles of articulation of fixed and removable dentures.
Aesthetic solution in prosthetic reconstructions.
Fixed orthodontic appliances.
19. Materials for models and modeling.
Problems of complete denture retention.
Extractions in orthodontic treatment.
20. High temperature fusing metal alloys, their properties, indications and manufacture.
Resilience of denture bearing tissues and its practical importance.
Tissue changes related to orthodontic tooth movement.
21. Articulation and occlusion.
Complete removable dentures – modifications, materials.
Class II anomalies – etiology, diagnosis and treatment.
22. Manufacture of metals, casting, soldering.
Support clasps. Basic elements, indications, basic types.
Class III anomalies – etiology, diagnosis and treatment.

23. Overdentures; support, bracing and reciprocity elements
Complete survey of working procedure during construction of removable partial dentures with metal framework.
Transversal discrepancies – etiology, diagnosis and treatment.
24. Indications of fixed and removable bridge.
Diagnostic evaluation of denture bearing tissues for upper and lower complete denture.
Open bite – etiology, diagnosis and treatment.
25. Prosthetic treatment of dentition with periodontal disease.
Cast clasps, characteristics, main types.
Deep bite – etiology, diagnosis and treatment.
26. Fixed, screwed and removable dentures supported by dental implants.
Classification of 2 class defects, their characteristics and way of treatment.
Impacted teeth - etiology, diagnosis and treatment.
27. Impressions of edentulous jaws.
Survey of fixed and removable splints, indications.
Cleft lip and palate - etiology, classification, and treatment).
28. Areal anchorage, its importance, splinting of dentition with periodontal disease.
Immediate dentures.
Orthognathic surgery and orthodontics.
29. Harmful effects of fixed and removable partial dentures.
Connectors in removable partial dentures.
Retention and stability in orthodontics.
30. Impression materials, indications, applications.
Fit – in complete denture, problems of habit concerning removable dentures.
Orthodontics and interdisciplinary patient.

