Odontotechnology and Prosthodontics Preclinical Course III final exam

General dental knowledge and dental materials

- 1. Acrylate as crown and bridge material. Acrylate polymerized on heat or on heat and pressurization without investing
- 2. Anatomy of the permanent teeth, occlusal morphology
- 3. Articulators, face-bows. Mounting casts.
- 4. Basic definitions of plastic chemistry. Properties of dental acrylates.
- 5. Dental acrylates. Pouring acrylates, acrylates processed by injection moulding. Acrylate false teeth.
- 6. Dental cements.
- 7. Dental waxes. Impression compound, oroplastic impression materials.
- 8. Elastomeric impression materials. Alginates and agar-agar based hydrocolloidical impression materials.
- 9. Fabricating specially accurate casts, casting plastics and super hard gypsum. The metal coating.
- 10. Gold, platinum and the platinum group of metals. Silver.
- 11. Impression trays.
- 12. Investment materials. The technique of expansive investing.
- 13. Mandibular positions, movements, plains.
- 14. Metals used in dentistry. Precious metals.
- 15. Not precious metals. Dental alloys.
- 16. Shaping of metals. The mouth-tolerance of metals. Chemical and electrochemical corrosion.
- 17. Silicone, Polysulfide and polyether impression materials.
- 18. Structure of metals. Melting, crystallization and alloying.
- 19. The dental gypsum. Types of dental gypsum.
- 20. The principles of processing dental polymers.
- 21. The silver alloys, silver-palladium alloys.
- 22. The stainless dental steel. Methods of producing metal prostheses.
- 23. Types of dental ceramics. Oxide ceramics.
- 24. Types of dental ceramics. Silicate ceramics.
- 25. Types of impressions, classification.
- 26. Types of prosthetic appliances.
- 27. Zinc-oxide-eugenol impression paste. Duplicating materials.

Partial dentures

- 1. Acrylic veneered fixed restorations. Material of the metal base, rules of the construction. Types of the acrylic veneer materials, technologies of the veneer construction.
- 2. Clinical steps of dowel-core restoration construction. Preparation, impression, protection of the prepared root, cementation.
- 3. Complex removable partial dentures. Technology of the construction.
- 4. Component parts of bridges, roles of the parts, principles of the pontic design.
- 5. Concept of retention and support of removable partial dentures, devices.
- 6. Construction of acrylic crowns and bridges, technologies, evaluation.
- 7. Definition of dowel-core restorations, types, indication, conditions of construction.
- 8. Designing removable partial denture. Purpose, steps, principles.
- 9. Finishing line preparation types for crowns. Evaluation, design.
- 10. Gold alloys. Platinum-gold alloys, metal-ceramic gold alloys. Gold-silver-palladium alloys.
- 11. Impression taking techniques for implant retained prosthetic appliances.
- 12. Impression techniques during removable partial denture construction.
- 13. Impression techniques for fixed restorations.
- 14. Investing, metal casting, finishing and polishing of the casts.
- 15. Laboratory steps of the metal based removable partial dentures construction.
- 16. Making casts for complete; and partial removable dentures. Material of the casts.
- 17. Making casts for fixed partial dentures. Material of the casts.
- 18. Metal alloys for PFM (porcelain-fused-to-metal) and RPD (removable partial denture) appliances.
- 19. Metal-ceramic restorations. Material of the metal base, basic rules of the construction. Technology of the ceramic covering material.
- 20. Parts of fixed bridges, function of the parts. Technologies of bridge constructions.
- 21. Precision attachments.
- 22. Principles of crown preparation.
- 23. Principles of designing the retainers, pontic and the occlusal surface during wax pattern fabrication of bridges.
- 24. Sequence of the clinical stages and laboratory procedures of the removable partial denture construction.
- 25. Sequence of the clinical stages and laboratory procedures of the complex removable partial denture construction.
- 26. Special restorations (obturator, epithetic).
- 27. Steps of crown preparation for full veneer crowns and bridges.
- 28. Technologies of the full ceramic restoration constructions.
- 29. Temporary fixed restoration construction.
- 30. Tooth shade selection (shade guides, digital devices).
- 31. Try-in procedure, cementation, and removing of fixed restorations.
- 32. Types of crowns, comparative evaluation.
- 33. Types of implant retained prosthetic appliances.
- 34. Types of removable partial dentures, component parts and the function of the parts.
- 35. Uniting the parts of metal prostheses. Heat treatment of metals.
- 36. Wax pattern fabrication of bridges. Fabrication of casted metal crowns.

Complete denture

- 1. Adjusting the special tray in edentulous cases.
- 2. Checking the trial denture. Fitting complete dentures.
- 3. Construction of special tray and occlusal rim. Purpose of application, overview of the used materials.
- 4. General principles of setting up anterior and posterior teeth. Balanced occlusion.
- 5. Parts of the complete dentures. Purpose of the parts, types of artificial teeth.
- 6. Primary (preliminary) impression. Purpose and properties of impression materials for complete dentures.
- 7. Processing the complete denture. Flasking and packing acrylic resins for complete dentures. Trimming and polishing.
- 8. Recording jaw relations in edentulous mouth.
- 9. Secondary (working) impression. Purpose, properties, techniques with impression materials used for complete dentures
- 10. Selection of the teeth for appearance and mastication.
- 11. Sequence of the clinical stages and laboratory procedures of the complete denture construction.
- 12. Setting up the teeth in different articulators.