

Preclinical dentistry – questions

Preclinical dentistry questions I. – operative dentistry, theory

1. Morphology of permanent dentition – frontal teeth
2. Morphology of permanent dentition – lateral teeth
3. Deciduous dentition – characteristics and description
4. Morphological nomenclature in oral cavity and denotation of teeth
5. The physiological function of dentition and oral cavity
6. Development of dentition, teeth eruption
7. Enamel, dentin and cementum – composition and characterization. Periodontium.
8. Equipment of the dental office, device, materials – an overview.
9. Motors and handpieces.
10. Investigative instruments, filling and preparation instruments, matrices and wedges.
11. Periodontic instruments
12. Endodontic instruments
13. Temporary filling materials
14. Permanent filling materials, amalgam
15. Composites and glasionomers
16. Medicaments in endodontics
17. Undersanding dental caries (caries danger areas, classification of dental caries)
18. Therapy and treatment of dental caries, preventiv and prophylaxis
19. Parodontopathies – aethiology, classification.
20. Oral hygiene – home and professional care
21. Classification of cavities, basic rules for preparation
22. Class I. cavity – characterization, preparation, filling materials, mekong filling –
sequence of operation.
23. Class I. cavity – characterization, preparation, filling materials, making fillings –
sequence of operation.
24. Class II. cavity – characterization, preparation, filling materials, making fillings –
sequence of operation.
25. Class III. cavity – characterization, preparation, filling materials, making fillings –
sequence of operation.
26. Class IV. cavity – characterization, preparation, filling materials, making fillings –
sequence of operation.
27. Class V. cavity – characterization, preparation, filling materials, making fillings –
sequence of operation.
28. Protection od dentin wound, indirect and direct pulp capping,bases and liners.
29. Morfology of pulp chamber and root canals including description of terms: apical
constriction, apical foramen, apex. Working length.
30. Techniques and methods of root canal shaping.
31. Root canal filling, techniques, materials.

Preclinical dentistry I. – operative dentistry, practice.

Part A. Preparation

1. Class II. cavity preparation (MO) in mandibular premolar (base, amalgam filling).
2. Class II. Cavity preparation (MOD) in mandibular premolar (base, amalgam filling).
3. Class II. Cavity preparation MO in mandibular molar (base, amalgam filling).
4. Class II.(MOD) in mandibular molar (base, amalgam filling).
5. Class II.(OD) in mandibular molar (base, amalgam filling).
6. Class V. cavity preparation for composite, filling, discussion of matrices and other filling materials.
7. Class I. Cavity preparation, base, amalgam filling, discussion of other materials.
8. Class III. for composites, filling
9. Class IV. – preparation and filling

Part B. endodontics.

1. Opening of the pulp chamber.
2. Reaming action, filling.
3. Canal shaping using circumferential filling.
4. Canal shaping using balanced force technique.

Part C. Tooth identification

All students bring for this part of the exam 1 premolar and 1 molar, endodontic instruments and 1 non used clear resin block. Without these student will not be admitted to the exam.

Preclinical dentistry II, questions - prosthetic – theory

1. Defects of dentition – the classification acc. to Voldřich
2. Classification of dentures, principles of their fabrication
3. Preparation instruments for prosthetic procedures. Diamonds, discs. Principles of their use. Handpieces.
4. Impression techniques – instruments and tools
5. Models(casts), kinds, instruments and tools.
6. Prosthetic materials
7. Alginate impression materials, composition, mode of employment, pouring and indications.
8. Silicone impression materials. Kinds, modes of employment, indications. Other elastomers.
9. Zinkoxideugenol impression materials.
10. Gypsum
11. Investment materials for precious and non precious metal alloys.
12. Waxes. Materials for grinding and polishing

13. precious and non precious dental alloys.
14. Laboratory fabrication of metal alloys.
15. Methylmetacrylates, kinds, manner of fabrication.
16. Ceramics.
17. Principles of teeth preparation, rounded and sharp shoulder.
18. Impression techniques for crowns and bridges.
19. Impression techniques for removable partial denture.
20. Impression technique for complete denture.
21. Fixed partial denture – sequence of operations.
22. Complete denture, sequence of operations.
23. Jacket crowns, sequence of operations.
24. Full metal crown, facette crown, sequence of operations.
25. Fixed bridges, description of their parts, materials, indications, sequence of operations.
26. Removable partial dentures with metal framework, their components, clasps, attachments, hybrid dentures.
27. Orthodontic anomalies, their classification, classification acc. to Angle.
28. Principles of orthodontic therapy. Prevention in orthodontic

Preclinical dentistry, question II. - prosthetic practice

Part A. preparation

1. Preparation for full metal crown in premolar, taking impression. Preparace na celolitou korunku u premoláru a otisky
2. Preparation for facette crown in premolar, taking impression.
3. Preparation for metalceramic crown, taking impression
4. Preparation for jacket crown taking impression.

Part B. fabrication

1. Fabrication of wax pattern of the root canal inlay
2. Fabrication of bite template
3. Fabrication of individual impression tray for upper jaw.
4. Fabrication of individual impression tray for upper jaw

Part C. description

1. Removable denture class I. sequence of operation
2. Removable denture class II. sequence of operation
3. Removable denture class III. sequence of operation
4. Complete denture, sequence of operation.

Students have to bring 1 premolar and 1 molar for the practical part of this part of the exam. Without teeth they will be not admitted to the exam.

Preclinical dentistry III. questions - oral surgery - theory

1. Sterilisation with saturated water steam.
Principles of X-ray examination, risks and prevention.
2. Dry - heat sterilisation
Local anaesthesia in oral surgery
3. Desinfection – principles and chemicals
Indications of the x-ray examination in oral surgery
4. Basic surgical instruments, principles of their use
Cold sterilisation
5. Preparation for a surgical treatment in dentistry
Principles of asepsis, surgical hand washing.
6. Blocked nerve anaesthesia – foramen mandibulae.
Structures and anatomical figures in x-ray picture in lower jaw
7. Infiltration anaesthesia
Structures and anatomical figures in x-ray picture in lower jaw
8. Elevators – description and use
Intraoral x-ray pictures, principles.
9. Suture materials
Basic x-ray techniques of skull and jaws
10. Teeth extractions using forceps. Principles
Blocked nerve anaesthesia in upper jaw.
11. Terms of surgical operations. Extraction, apicectomy, hemiextraction, excochleation, sutura.
Examination of patient before the surgical treatment.
12. Principles of teeth extractions – work with the elevators
Processing of x-ray pictures.
13. Complications of extraction and local anaesthesia.
Suture and suture materials.

Preclinical dentistry III., questions - oral surgery - practice

1. Nerve blocked anaesthesia on tuber maxillae – a technique
2. Extraction of maxillary molars
3. Nerve blocked anaesthesia on foramen mandibulae – a technique
4. Extraction of mandibulatory molars
5. Infiltration anaesthesia – a technique
6. Extraction of maxillary incisors and canines
7. Techniques of sutures.
8. Extraction of mandibulatory incisors
10. Identification of surgical instruments – techniques of use.