

## **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. Dental pulp, gingiva, periodontium.
8. Equipment of the dental office, device, materials – an overview. Motors and handpieces
9. Dry operation field, rubber dam.
10. Investigative instruments, filling and preparation instruments, matrices and wedges.
11. Periodontic instruments and devices - curettes , scalers, ultrasound, air flow.
12. Endodontic instruments
13. Temporary filling materials
14. Permanent filling materials, amalgam
15. Composites and glassionomers
16. Medicaments and materials in endodontics
17. Understanding dental caries (caries danger areas, classification of dental caries)
18. Therapy and treatment of dental caries, prevention and prophylaxis
19. Periodontal diseases, indexes: PBI, CPITN.
20. Oral hygiene – home and professional care, diseases of periodontal tissues.
21. Classification of cavities, basic rules for preparation
22. Class I. cavity – characterization, preparation, filling materials, making fillings – sequence of operation.
23. Class II. cavity – characterization, preparation, filling materials, making fillings – sequence of operation.
24. Class III. cavity – characterization, preparation, filling materials, making fillings – sequence of operation.
25. Class IV. cavity – characterization, preparation, filling materials, making fillings – sequence of operation.
26. Class V. cavity – characterization, preparation, filling materials, making fillings – sequence of operation.
27. Protection of dentin wound, indirect and direct pulp capping
28. Morphology of pulp chamber and root canals including description of terms: apical constriction, apical foramen, apex. Working length.
29. Techniques and methods of root canal shaping.
30. Root canal filling, techniques, materials

## **Preclinical dentistry questions I. – operative dentistry, practice**

1. Preparation of class II. cavity for amalgam – 1st mandibular molar - 36. MO. Base, matrix.  
Access cavity, balance forced technique. ISO 35 D, 30 ML, MB.
2. 2. Preparation of class II. cavity for composite – 1st maxillary molar 26 - MO. Filling. Access cavity, circumferential filing: ISO 35 D, 30 ML, MB.
3. Preparation of class II. cavity for composite, 2nd mandibular premolar 35 – MOD. Filling.  
Access cavity, balance forced technique. ISO 35 D, 30 ML, MB.
4. Preparation of class II. cavity for composite – 1st maxillary molar. 26 MO. Crista obliqua preserved. Filling.  
Access cavity, free (what students want) shaping technique. ISO 35 D, 30 ML, MB.
5. Preparation of class II. for composite, 1. st maxillary molar. 26. MO. Filling.  
Access cavity, circumferential filing: ISO 35 D, 30 ML, MB.
6. Preparation of class II. cavity for amalgam 1st mandibular molar. 36. MOD. Base, matrix.  
Access cavity, free (what students want) shaping technique. ISO 35 D, 30 ML, MB.
7. Preparation of class II. for composite, 2nd mandibular premolar. 35 – MOD Filling.  
Access cavity, circumferential filing: ISO 35 D, 30 ML, MB.
8. Preparation of class II. for composite, 1st maxillary molar 26 MO. Crista obliqua preserved. Base, Matrix.  
Access cavity, balanced force technique: ISO 35 D, 30 ML, MB.
9. Preparation of class II for composite MO 1 st mandibular molar. Filling.  
Access cavity, free (what students want) shaping technique. ISO 35 D, 30 ML, MB.
10. Preparation of class II. for composite, MO, 1st maxillary molar. 26. Filling.  
Access cavity, circumferential filing: ISO 35 D, 30 ML, MB.

## **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

Principles of sterilization desinfection, asepsis and antisepsis

5. Preparation for a surgical treatment in dentistry

Principles of asepsis, surgical hand washing.

6. Nerve blocked anaesthesia – foramen mandibulae.

Structures and anatomical figures in x-ray picture in mandible

7. Infiltration anaesthesia

Structures and anatomical figures in x-ray picture in maxilla

8. Elevators – description and use

Intraoral x-ray pictures, principles of investigation (techniques – parallel technique, bisecting angle technique)

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.

Complications of extraction and local anaesthesia.

12. Principles of teeth extractions – work with the elevators

Structures in intraoral radiograms BW technique

## **Preclinical dentistry III., questions - oral surgery - practice**

1. Nerve blocked anaesthesia on tuber maxillae and foramen onfraorbitale – demonstration of the technique
2. Extraction of maxillary molars - demonstration of the technique
3. Nerve blocked anaesthesia on foramen mandibulae – demonstration of the technique
4. Extraction of mandibular molars - demonstration of the technique
5. Infiltration anaesthesia – demonstration of the technique
6. Extraction of maxillary incisors and canines - demonstration of the technique
7. Techniques of sutures demonstration of the technique single suture, matress suture and cross matress suture.
8. Extraction of mandibular incisors - demonstration of the technique
9. Identification of surgical instruments – techniques of use.
10. OPG – description, identification of forceps.

## **Preclinical dentistry II, questions - prosthetic – theory**

1. Defects of dentition – the classification acc. to Voldřich
2. Classification of dentures, principles of their fabrication (direct and indirect method)
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 of the alginate impression.
8. Silicone impression materials. Kinds, modes of employment, indications of the impression.
- Other elastomers.
9. Zinkoxideugenol impression materials.
10. Gypsum
11. Investment materials.
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. Preparation for metalceramic and full crowns.
18. Impression techniques for crowns and bridges.
19. Impression techniques for removable partial denture.
20. Impression technique for complete denture.
21. Complete denture, sequence of operations.
22. Metalceramics crowns, sequence of operations.
23. Full metal crown, facette crown, sequence of operations.
24. Fixed bridges, description of their parts, materials, indications, sequence of operations.
25. Removable partial dentures with metal framework, their components, clasps, attachments, hybrid dentures.
26. Orthodontic anomalies, their classification, classification acc. to Angle.
27. Principles of orthodontic therapy. Prevention in orthodontic

## **Preclinical dentistry, question II. - prosthetic practice**

### **Part A. preparation**

1. Preparation for full metalceramic crown in 2 nd mandibulary premolar, description of the impression technique (Tooth 35)
2. Preparation for full metal crown in mandibulary 1st molar, description of the impression technique (Tooth 46)
3. Preparation for metalceramic crown in mandibulary 1st molar, description of the impression technique (Tooth 46)
4. Preparation for full ceramic crown, in maxillary 1st incisor, description of the impression technique (Tooth21)

### **Part B. 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.