

## Restorative dentistry – questions

1. Examination of the patient and treatment planning in restorative dentistry. Importance of x-ray investigation and others imaging methods in restorative dentistry.
2. Dental caries – its etiology and pathogenesis from contemporary point of view. The most important theories of its origin. Patho-morphological picture of dental caries–cavitated and non cavitated lesion.
3. Classification of dental caries from various points of view. Caries risk areas, habitually clean areas. Subjective and objective symptoms of dental caries. Deep caries (caries pulpae proxima) – characteristic, symptoms, treatment.
4. Saliva, its composition and relation between it and dental caries.
5. Non invasive and mini-invasive approach in therapy and treatment of dental caries, mini-invasive preparation techniques.
6. Basic rules of preparation in restorative dentistry, motors, hand-pieces and proper handling. Preparation instruments, principles of preparation of hard dental. tissues, correct usage of instruments during preparation, classification of preparation instruments and proper service.
7. Treatment of pit and fissure caries. (class I according to Black), choice of suitable materials.
8. Treatment of proximal caries in premolars and molars (class II according to Black) with amalgam. Preparation, proper working procedure.
9. Use of composites in posterior teeth (class I and II according to Black) – preparation, proper working procedures.
10. Treatment of class III and IV. caries according to Black, materials, proper working procedure.
11. Treatment of class V. choice of suitable materials for individual situations. Non carious defects.
12. Basic principles of esthetics, reading of optical properties of tooth tissues. Principles of anatomical stratification. Layering of composites with regard to marginal fit, curing and esthetic effect. C – factor.
13. Composite filling materials and their modification – composition, classification, properties, indications.
14. Principles of composites attachment to tooth tissues, bonding systems and their proper usage. Working procedures for composite resin generally.

15. Amalgams. Composition, properties, indications, proper working procedure in making filling. Large restoration (cusp overlapping).
16. Glass-ionomer cements. Composition, properties, indications, proper working procedure in making filling.
17. Temporary filling materials.
18. Dry field isolation - methods.
19. Reconstruction of endodontically treated teeth
20. The most frequent errors in preparation and storage of materials. Possibilities of dental pulp damage during cavity preparation and filling. Dentin hypersensitivity, postoperative sensitivity.

## Endodontics

1. Morphological fundamentals of endodontics (clinical anatomy of pulp chamber and root canals, form and location of the endodontic cavity). Dental pulp and its defensive potential, healing of inflamed and injured dental pulp.
2. Indications and contraindications of endodontic treatment. Classification of dental pulp diseases (histopathological and clinical).
3. Vital pulp therapy (indirect pulp capping, direct pulp capping, pulpotomy). Indications, contraindications, working procedures.
4. Root canal treatment – step by step (phases).
5. Aetiology and symptomatology of pulpitis, necrosis and gangraena.
6. Apical periodontitis, aetiology, classification, diagnosis, principles of the treatment.
7. Acute pulpitis symptoms, clinical diagnosis, principles of the treatment
8. Chronic pulpitis, internal granuloma, resorption of hard dental tissues. symptoms, diagnosis, principles of therapy.
9. Differential diagnosis of orofacial pain.
10. Materials and medicaments in endodontics (including irrigants)
11. Root canal instruments for dental pulp removal, hand preparation of the root canal, kinds of instruments, ISO norm, principles of proper usage and maintenance. Hand preparation of the root canal – techniques and methods.
12. Power-driven root canal preparation – instruments, motors, and contra-angled hand-pieces, general principles of power-driven endodontics. Complications.

13. Root canal filling materials and methods of root canal filling.
14. Retreatment – indications and contraindications. Complications in the course of the pulpitis treatment – local, regional, total and their prevention and treatment.
15. Endodontic surgery – indications and contraindications, procedures.
16. Focal infection of odontogenic origin.