

## **Topics for final exam - 2024**

### **Questions A**

1. History taking, patient examination and treatment plan in endodontics
2. Tools for diagnosis in endodontics
3. Anatomy and histology of the pulp. Description of the pulp chamber
4. Anatomy of the root apex and periapical tissues
5. Pathophysiology, symptoms, diagnosis and therapy of pulpal and periapical diseases
6. Pathophysiology, symptoms, diagnosis and therapy of acute (symptomatic) and chronic (asymptomatic) apical periodontitis and condensing osteitis
7. Pathophysiology, symptoms, diagnosis and therapy of acute and chronic apical abscess.
8. Concept, purpose, indication, contraindication and limitation of root canal therapy
9. Preventive endodontics: the importance of pulp protection. Vital pulp therapies.
10. Emergency procedures in endodontics. Vertical root fracture.
11. Aesthetic and functional restoration of root canal treated teeth (post and core buildup, single crown, endocrown, indirect restorations)
12. Endodontic treatment of accidentally damaged teeth
13. Restorative and endodontic treatment for patients requiring special care. Odontogenic focal infection

### **Questions B**

1. Manual and powered instruments in root canal treatment.
2. Purpose, protocol, and technique of root canal irrigation and local medication in endodontic treatment. Microbiological aspects of endodontics.
3. Access openings (trepanation) and pulp extirpation
4. Importance and methods of working length determination
5. Endodontic hand instruments techniques. Orifice opening and shaping
6. Preparation of the root canal using the step-back technique. Apical stop/apical seal.
7. Hand and rotary root canal preparation techniques (beyond the step-back)
8. Procedural errors during root canal preparation
9. Root canal obturation techniques (cold and warm guttapercha techniques)
10. Lateral condensation/compaction.
11. Evaluation of endodontic outcome. The indication, contraindication, and modality of the revision of root canal treatment
12. Steps of orthograde retreatment of failed root canal treatments.
13. Indications, contraindications, and methods of tooth whitening. Possible side effects and their prevention.
14. Surgical interventions in restorative dentistry and endodontics (crown lengthening, drainage, apicectomy, hemisection, bicuspidation, amputation).