**SUBJECTS**

**FOR THE PROMOTION EXAM**

**ACADEMIC YEAR 2024-2025**

**FOURTH YEAR ENDODONTICS**

1. Endodontics. Concept. Its tasks. Stages of endodontic treatment.

2. Topographic anatomy of incisors and canines. Creating endodontic access.

3. Topographic anatomy of premolars in endodontic aspect. Creating endodontic access.

4. Topographic anatomy of molars in endodontic aspect. Creating endodontic access.

5. Endodontic space. Characteristics of the dentinal and cementum cone.

6. Concepts of anatomical, physiological and radiological apex. Their practical importance.

7. Concept of a root with an unformed apex.

8. Characteristics of the tooth root growth zone.

9. Histological and physiological structure of the dental pulp.

10. Pulp changes in synesthesia and pathological conditions.

11. Terms of eruption and formation of the roots of permanent teeth.

12. Anatomical and physiological features of the periodontium/desmodontium.

13. Age-related changes and functions of the periodontium.

14. Cellular elements of the periodontium. The role of epithelial relics in the pathology of the apical periodontium.

15. Electroodontometry. Its role in dental practice.

16. Apical periodontitis. Etiology. Pathogenesis. Classification.

17. Acute apical periodontitis. Morphopathology. Clinic. Differential diagnosis. Treatment.

18. Chronic fibrous apical periodontitis. Morphopathology. Clinical picture.

19. Chronic granulating apical periodontitis. Morphopathology. Clinical picture.

20. Chronic granulomatous apical periodontitis. Morphopathology. Clinical picture.

21. Chronic apical periodontitis in the stage of exacerbation. Clinical picture. Differential diagnosis.

22. Methods of examination of the patient with acute and chronic apical periodontitis

23. Etiology and pathogenesis of apical periodontitis. Classification of apical periodontitis.

24. Principles of diagnosis and treatment of acute apical periodontitis.

25. Drug-induced apical periodontitis. Clinical picture. Differential diagnosis. Treatment.

26. Differential diagnosis of acute and chronic exacerbated periodontitis.

27. Treatment of acute apical periodontitis.

28. Principles of diagnosis and treatment in chronic apical periodontitis.

29. Working field isolation systems (dam).

30. Endodontic instrumentation. Characteristics. Classification.

31. Standardization of endodontic instruments according to ISO.

32. Determination of working length in endodontic treatment.

33. Methods of permeabilization of root canals. Instruments and their use.

34. Instrumental preparation of the root canal. Step-back and crown-down techniques.

35. Materials for root canal fillings. Classification.

36. Hard materials for root canal fillings. Thermophiles.

37. Lateral condensation in root canal filling.

38. Vertical condensation in root canal filling

39. Root canal filling technique by injection method with plasticized gutta-percha.

40. Instruments required for root canal filling. Their selection.

41. Stages of local treatment of acute apical periodontitis.

42. Stages of local treatment of chronic exacerbated apical periodontitis.

43. General treatment in acute and chronic exacerbated periodontitis.

44. Treatment of chronic fibrous apical periodontitis.

45. Treatment of chronic granulating apical periodontitis.

46. Treatment of chronic granulomatous apical periodontitis.

47. Conservative-surgical methods of treatment of apical periodontitis.

48. Clinical-radiological data of chronic apical periodontitis.

49. Methods of sterilization of root canals.

50. Methods and techniques of irrigation of the endodontic space. Solutions (antiseptics).

51. Preparations used in the drug treatment of root canals. Groups. Requirements.

52. Physiotherapeutic methods in the treatment of apical periodontitis.

53. Drug treatment of root canals in apical periodontitis.

54. Errors and complications in the treatment of apical periodontitis.

55. Root canal unobstruction. Indications. Methods.

56. Magnification of the operating field in endodontics, devices and their characteristics. Endodontic microscope. The importance of its use in endodontic treatment.

57. Biomechanical principles of achieving morpho-functional restorations specific to endodontically treated teeth;