**TABLE OF SPECIFICATIONS**

**BDS Final Prof**

**OPERATIVE DENTISTRY & ENDODONTICS**

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| --- | --- | --- | --- | --- | --- |
| **SNO** | **CONTENT** | **OBJECTIVES** | **Teaching MITs** | **Assessment** | **%** |
| **Lecture** | **SGD** | **Ward** | **MCQ** | **SAQ** | **OSCE** | **viva** |  |
| 1 | Infection control | Students should be able to describe:1. Sterilization protocols for endo/operative instruments
2. Protocols for patient preparation
 |  |  |  |  | 01 |  |  | 2% |
| 2 | Preliminary Considerations | Students should be able to describe:1. Patient/operator positioning
2. Rubber Dam Application for operative and endodontic procedures
3. Indications and different techniques of LA in endodontic / operative procedures
 |  |  |  | 01 |  | 01 |  | 3% |
| 3 | Endodontic Armamentarium | Students should be able to describe and identify:1. Physical properties and design of endodontic instruments
2. Rotary and manual instruments used for endodontic procedures
 |  |  |  | 01 | 01optional | 01 | 5 | 5% |
| 4 | Pulpal & Peri-Radicular Diseases | Should be able to describe:1. Applied anatomy of pulpal and peri radicular space
2. Classification of pulpal and peri radicular diseases
3. Route of entry of micro-organisms to the pulp and peri-radicular tissues
4. Main microbial species involved in different diseases
 |  |  |  | 01 | 01 |  |  | 3% |
| 5 | Endodontic Diagnosis and Treatment Planning | Should be able to describe and apply knowledge of:1. Medical and dental history
2. Perform extra & intra oral examination
3. Apply interpret and understand the limitations of diagnostic tools
4. Indications contra indications and case selection
5. Medically Compromised patients
 |  |  |  | 01 | 01 | 01 |  | 8% |
| 6 | Endodontic Treatment Procedures | Students should be apply to describe and apply knowledge of :1. Step by step procedure for achieving straight line access in various teeth
2. Various methods of working length determination
3. Various cleaning and shaping techniques (conventional and rotary)
4. Significance of irrigation, types of irrigants and ideal properties of irrigants
5. Significance of root canal medicaments and their types

Define obturation, criteria for obturation and different techniques of Obturation  |  |  |  | 01 | 1 essential1 optional | 01 | 10 | 8% |
| 7 | Endodontic retreatment | Students should be apply to describe and apply knowledge of :1. Etiology of endodontic failure
2. Recognize procedural errors and describe causes, prevention
3. Management (surgical /non –surgical) of endodontic failure
 |  |  |  | 01 |  | 01 | 05 | 3% |
| 8 | Endodontic Emergencies | Students should be able to describe and apply knowledge of:1. Identify and categorize the various endodontic emergencies
2. Pain management in endodontics
 |  |  |  | 01 |  |  |  | 2% |
| 9 | Endo-PerioDiseases | Should be able to classify and diagnose endo-perio diseases and their management |  |  |  | 01 | 01Optional |  | 05 | 2% |
| 10 | Post Endodontic Restoration | Should be able to describe:1. Importance of coronal seal and how it is achieved.
2. Post/core restoration
 |  |  |  | 01 | 01Optional |  |  | 4% |
| 11 | Diagnosis and Treatment Planning in Restorative Dentistry | To provide information about and experience in:1. History taking
2. Examination of orofacial soft tissues
3. Examination of Teeth & restorations
4. Review of periodontium
5. Various diagnostic tests & investigation
6. Treatment plan
 |  |  |  | 03 |  |  | 05 | 7% |
| 12 | Caiology | To provide in depth knowledge and skill in:1. Etiology of caries
2. Clinical characteristics of the lesion
3. Histo / pathophysiology of caries
4. Caries diagnosis
5. Caries prevention
6. Caries treatment
7. Caries risk assessment
 |  |  |  | 03 | 01 |  |  | 7% |
| 13 | Restorative Procedures | 1.Describe tooth preparation techniques of direct & indirect restorations2.indications and contra indications of direct and indirect restorations3.perform tooth preparation for direct (amalgam and composite) and indirect (inlays and onlays) restorations |  |  |  | 03 | 01 | 01 | 05 | 12% |
| 14 | Contact and Contours | How to develop proper contacts and contours  |  |  |  |  | 01 Optional | 01 | 05 | 4% |
| 15 | Restorative Materials | 1.Should be able to understand the composition, properties and uses of Dental Amalgam, Dental Composite and Dental cements  |  |  |  | 02 | 01 |  | 05 | 8% |
| 16 | Non carious lesions | 1.Identify the causes, clinical manifestation and management of Non carious lesions2.Materials used to restore non carious cervical lesions |  |  |  | 01 | 01optional | 01 |  | 6% |
| 17 | Adhesive Dentistry | 1.Understand the concepts of adhesive dentistry2.Components of dental adhesive3.Generations of Dental adhesive4.Microleakage and Nano leakage5.Wet and dry bonding concept6.Hybrid layer7.Amalgam bonding |  |  |  | 02 | 01 |  | 05 | 6% |
| 18 | Management of Deep Carious Lesions | 1.Significance of remaining dentin thickness2.Describe intermediary bases and liners |  |  |  | 01 | 01Optional |  | 05 | 5% |
| 19 | Tooth Discoloration | 1.Identify the causes of tooth discoloration3.Describe various methods used for management of discolored teeth |  |  |  | 01 | 01 |  |  | 5% |