



INDIAN BOARD OF ORAL AND MAXILLOFACIAL SURGERY

Under the aegis of
The Association of Oral and Maxillofacial Surgeons of India



INDIAN BOARD OF ORAL AND MAXILLOFACIAL SURGERY (IBOMS)

Comprehensive Curriculum and Assessment Framework

Fellowship Examination in Oral and Maxillofacial Surgery

This document presents the *comprehensive curriculum, competency domains, and assessment framework* for the **IBOMS Fellowship Examination in Oral and Maxillofacial Surgery**. It outlines the fundamental and advanced areas of knowledge expected of candidates, encompassing clinical, academic, and research-oriented competencies.

The syllabus has been structured to integrate:

- **Basic and applied sciences,**
- **Core surgical disciplines,**
- **Advanced reconstructive and aesthetic surgery, and**
- **Professional and ethical development.**

The relative marks distribution serves as an **indicative guide** to the emphasis of each domain. Actual paper composition may vary at the discretion of the Examination Board.

1. Basic and Applied Sciences

- 1.1. Applied Anatomy, Embryology, and Genetics
- 1.2. Applied Physiology and Biochemistry
- 1.3. Oral and General Pathology and Microbiology
- 1.4. Pharmacology relevant to Oral and Maxillofacial Surgery
- 1.5. Wound Healing, Inflammation, and Bone Physiology
- 1.6. Research Methodology, Biostatistics, and Ethics

2. Principles of Surgery and Perioperative Management

- 2.1. Basic Surgical Principles and Asepsis
- 2.2. Preoperative Assessment and Patient Preparation
- 2.3. Pre-Anesthetic Evaluation and Risk Stratification
- 2.4. Postoperative Care, Airway and ICU Monitoring
- 2.5. Nutrition and Systemic Considerations
- 2.6. Wound Management and Suture Techniques
- 2.7. Tissue Grafting and Flap Biology

3. Anesthesia and Medical Emergencies

- 3.1. Local Anesthesia – Agents, Techniques, Complications
- 3.2. General Anesthesia – Indications and Airway Management
- 3.3. Sedation, Analgesia, and Pain Control
- 3.4. Medical Emergencies and Resuscitation
- 3.5. Basic and Advanced Life Support
- 3.6. Patient Safety and Perioperative Monitoring



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4. Dentoalveolar and Minor Oral Surgery

- 4.1. Exodontia and Impacted Tooth Surgery
- 4.2. Surgical Infections and Maxillofacial Space Infections
- 4.3. Preprosthetic Surgery and Ridge Augmentation
- 4.4. Implantology – Principles and Complications
- 4.5. Maxillary Sinus Surgery
- 4.6. Lasers and Cryosurgery in Oral Surgery

5. Oral Medicine and Maxillofacial Radiology

- 5.1. Diagnostic Methods and Imaging Techniques
- 5.2. Oral Mucosal Lesions and Ulcerative Conditions
- 5.3. Oral Potentially Malignant Disorders
- 5.4. Oral Manifestations of Systemic Diseases
- 5.5. Radiologic Interpretation and Imaging Advances
- 5.6. Orofacial Pain Syndromes (Non-Surgical)
- 5.7. Temporomandibular Disorders – Diagnosis and Conservative Management

6. Maxillofacial Trauma

- 6.1. Mandibular, Midface, and Panfacial Fractures
- 6.2. Dentoalveolar and Pediatric Trauma
- 6.3. Orbital, Nasal, and Zygomatic Fractures
- 6.4. Secondary Deformities and Post-Traumatic Reconstruction
- 6.5. Virtual Surgical Planning and Fixation Systems
- 6.6. Head Injury / Neurotrauma / Airway management in trauma

7. Temporomandibular Joint Surgery and Disorders

- 7.1. TMJ Ankylosis – Classification, Gap and Interpositional Arthroplasty
- 7.2. Total Joint Replacement and Patient-Specific Prosthesis
- 7.3. Arthrocentesis and Arthroscopy
- 7.4. Regenerative and Stem Cell Based Approaches
- 7.5. Postoperative Physiotherapy and Outcome Assessment

8. Orthognathic and Dentofacial Deformities

- 8.1. Growth and Development of the Facial Skeleton
- 8.2. Cephalometric and Virtual Planning
- 8.3. Le Fort, BSSO, and Segmental Osteotomies
- 8.4. Distraction Osteogenesis
- 8.5. Obstructive Sleep Apnea – Skeletal and Soft Tissue Surgery
- 8.6. Postoperative Stability and Relapse Management

9. Cleft and Craniofacial Surgery

- 9.1. Embryology and Classification of Clefts
- 9.2. Cleft Lip and Palate – Primary and Secondary Repair
- 9.3. Craniofacial Anomalies and Syndromic Surgery
- 9.4. Craniofacial Distraction and Orthognathic Correction
- 9.5. Multidisciplinary Cleft and Craniofacial Team Approach



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10. Head and Neck Oncology, Oral Pathology, and Salivary Gland Surgery

- 10.1.Oral Potentially Malignant Disorders and Early Cancer Detection
- 10.2.Cysts and Benign Tumors of the Jaws
- 10.3.Malignant Tumors and Oral Cancer
- 10.4.Salivary Gland Pathologies and Surgery
- 10.5.Surgical Oncology and Neck Dissection
- 10.6.Reconstruction and Prosthetic Rehabilitation after Resection
- 10.7.Vascular Malformations

11. Reconstructive and Microvascular Surgery

- 11.1.Local, Regional, and Free Flap Reconstruction
- 11.2.Patient-Specific Implants and Digital Reconstruction
- 11.3.Microvascular Techniques and Flap Monitoring
- 11.4.Tissue Grafting and Composite Reconstruction
- 11.5.Functional and Aesthetic Outcome Evaluation

12. Aesthetic and Facial Plastic Surgery

- 12.1.Principles of Facial Aesthetics
- 12.2.Rhinoplasty, Blepharoplasty, and Otoplasty
- 12.3.Genioplasty and Facial Contouring
- 12.4.Fat Grafting and Soft Tissue Augmentation
- 12.5.Minimally Invasive and Rejuvenation Procedures
- 12.6. Hair Transplant

13. Tissue Engineering and Recent Advances

- 13.1.Stem Cell Applications and Regenerative Medicine
- 13.2.Tissue Engineering and Biomaterials
- 13.3.Robotics, Navigation, and Artificial Intelligence
- 13.4.3D Printing and Digital Workflows
- 13.5.Lasers, Cryosurgery, and Newer Technologies

14. Miscellaneous and Professional Development

- 14.1.Communication, Ethics, and Professionalism
- 14.2.Surgical Audits and National Guidelines
- 14.3.Record Keeping and Medico-Legal Issues
- 14.4.Academic Writing, Research Dissemination, and Mentorship
- 14.5.Disaster Management and Field Surgery



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Marks distribution in MCO question paper

No.	Section Title	Acronym	Approx Weightage (%) *
1.	Basic and Applied Sciences	BASC	8
2.	Principles of Surgery and Perioperative Management	PRSU	6
3.	Anesthesia and Medical Emergencies	ANES	5
4.	Dentoalveolar and Minor Oral Surgery	DMOS	8
5.	Oral Medicine and Maxillofacial Radiology	OMMR	6
6.	Maxillofacial Trauma	MXTR	12
7.	Temporomandibular Joint Surgery and Disorders	TMJD	8
8.	Orthognathic and Dentofacial Deformities	ORTH	10
9.	Cleft and Craniofacial Surgery	CLCF	8
10.	Head and Neck Oncology, Oral Pathology, and Salivary Gland Surgery	ONCO	10
11.	Reconstructive and Microvascular Surgery	RECO	7
12.	Aesthetic and Facial Plastic Surgery	AEST	5
13.	Tissue Engineering and Recent Advances	TECH	4
14.	Miscellaneous and Professional Development	MISC	3

* Note:

- The above mark distribution is **indicative and arbitrary**, intended only to reflect the **approximate relative emphasis** of various subject areas.
- The **actual distribution may vary slightly** in the final examination depending on the overall question paper design and academic discretion of the Board.