

# **RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER**

## **SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF ASSISTANT PROFESSOR (Super Speciality) PLASTIC & RECONSTRUCTIVE SURGERY MEDICAL EDUCATION DEPARTMENT**

### **Unit -I - General Plastic Surgery**

1. Historical Perspectives, Genetics, Psychological aspects, Legal aspects & Ethics.
2. Photography & Anaesthesia in Plastic Surgery.
3. Wound Management, Scar - Keloid & Hypertrophic Management.
4. Flaps & Skin grafts - Physiology, classification & applications.
5. Principles & techniques of Microvascular Surgery.
6. Principle of Tissue Expansion & its application.
7. Repair & grafting of Fat, Tendon, Skeletal muscle, Cartilage, Bone & Peripheral nerve.
8. Alloplastic implants & prostheses in Plastic Surgery.
9. Thermal, Radiation, Electrical & Cold Injuries.
10. Principles of Endoscopic Surgery.
11. Surgical Horizons: Foetal Surgery, Telemedicine & Robotics.
12. Lasers in Plastic Surgery.
13. Anthropometric & Cephalometric Facial Analysis.
14. Transplantation in Plastic Surgery.
15. Principles of Cancer Management.
16. Principles of Closure & Complex wounds.
17. Congenital Vascular Malformations.

### **Unit - II - Head & Neck Reconstruction**

1. Skin & Soft tissue trauma.
2. Acute care & Reconstruction of Facial Burns.
3. Facial fractures - adult & paediatric.
4. Temporomandibular joint dysfunctions.
5. Acquired bony deformities of Cranium & Face.
6. Scalp Reconstruction.
7. Ear Reconstruction.
8. Forehead Reconstruction.
9. Reconstruction of Periorbital Adnexa.
10. Lower third face & lip reconstruction.
11. Midface reconstruction.
12. Facial Paralysis.
13. Oral cavity reconstruction.

14. Mandible reconstruction.
15. Hypopharyngeal & Oesophageal reconstruction
16. Nasal Reconstruction.
17. Neck Reconstruction.
18. Skin & Soft tissue tumors.

### **Unit -III - Congenital Anomalies**

1. Embryology & Classification of Craniofacial Clefts.
2. Classification & pathology of Primary Facial Clefts.
3. Anatomy & Classification of Cleft Palate.
4. Craniofacial Syndromes & Treatment.
5. Craniofacial Microsomia.
6. Non - Syndromic Cranial Synostosis.
7. Unilateral Cleft Lip Repair.
8. Bilateral Cleft Lip Repair.
9. Cleft palate Repair.
10. Velopharyngeal incompetence.
11. Orthodontics in Cleft lip & Palate management.
12. Secondary deformities of Cleft Lip, Nose & Palate.
13. Reconstruction of Orbital Hypertelorism.
14. Reconstruction of Facial Clefts.
15. Reconstruction of Cranial Synostosis.
16. Hemifacial Atrophy.

### **Unit - IV - Breast & Chest Wall**

1. Congenital Anomalies of Breast.
2. Breast Augmentation techniques.
3. Mastopexy.
4. Oncoplastic techniques in Breast.
5. Breast Reduction techniques.
6. Immediate Post Mastectomy Reconstruction- Expander/ Implant techniques.
7. Immediate Post Mastectomy Reconstruction - Autologous.
8. Immediate Post Mastectomy Reconstruction with free tissue transfer - Abdomen based.
9. Delayed Post Mastectomy Reconstruction.
10. Perforator Flaps for Breast Reconstruction.
11. Chest wall Reconstruction - Congenital & Acquired deformities.
12. Nipple Areola Complex Reconstruction.

### **Unit - V - Trunk, Perineum & Lower Extremity.**

1. Abdominal Wall defect reconstruction.
2. Abdominoplasty.
3. Liposuction techniques for Body Contouring.

4. Reconstruction of Male Genital defects - Congenital & Acquired including Hypospadias.
5. Reconstruction of Female Genital defects - Congenital & Acquired.
6. Gender Reassignment Surgery.
7. Pressure Sores & their management.
8. Vascular insufficiency of Lower Limb.
9. Lymphoedema & its management.
10. Skeletal & Soft tissue reconstruction of Lower limb
11. Foot reconstruction.
12. Diabetic Foot & its management.

#### **Unit -VI - Hand & Upper Extremity.**

1. Anatomy & Biomechanics of upper limb.
2. Examination of Upper Extremity.
3. Anaesthesia in Upper Extremity.
4. General Principles of Hand Surgery.
5. Principles of Skeletal Fixation as applied to wrist & Hand
6. Surgery of nail.
7. Thumb Reconstruction - Conventional, Microvascular & Pollicisation.
8. Flexor Tendon Injuries & Reconstruction.
9. Extensor Tendon Injuries & Reconstruction.
10. Peripheral Nerve Injuries - Repair & Reconstruction.
11. Nerve transfers in Upper limb.
12. Tendon transfers in Upper limb.
13. Adult Brachial Plexus Injury & its management.
14. Obstetrical Brachial Plexus injury & its management.
15. Reimplantation & Revascularisation of Upper extremity.

#### **Unit -VII - Hand & Upper Extremity.**

1. Acute management of burn / Electrical injury to the hand.
2. Reconstruction of Post burn deformities of Hand & Upper limb.
3. Delayed reconstruction in Electric Burn Injury of Hand.
4. Management of Hand in Leprosy.
5. Nerve Entrapment Syndromes.
6. Benign & Malignant soft tissue tumors of Hand.
7. Bone tumors of Hand & their management.
8. Lymphoedema of Upper limb.
9. Syndromic & Non-Syndromic Syndactyly.
10. Congenital Anomalies of Upper limb & their management.

### **Unit - VIII - Aesthetic Surgery.**

1. Aesthetic surgery of forehead.
2. Aesthetic periorbital surgery.
3. Aesthetic Surgery of Face & Neck.
4. Facial resurfacing techniques.
5. Non-surgical facial rejuvenation.
6. Fat grafting.
7. Rhinoplasty.
8. Hair Restoration Techniques.
9. Brachioplasty.
10. Thigh lift.
11. Total body lift after Bariatric Surgery.
12. Laser applications in Aesthetic Surgery.

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### **Pattern of Question Papers:**

1. **Objective Type Paper**
2. **Maximum Marks: 150**
3. **Number of Questions: 150**
4. **Duration of Paper : 2.30 Hours**
5. **All Questions carry equal marks**
6. **There will be Negative Marking**  
(For every wrong answer one-third of the marks prescribed for that Particular question shall be deducted.)