

**Paper II**

**Part I: General Subject**

**25 Marks**

1. History of plastic surgery
2. Medical Photography: standard and importance
3. Plastic and Burn surgery team
4. Communication in plastic surgery
5. Bio materials in plastic surgery
6. Consent & informed consent
7. Structure & function of skin
8. Blood supply to the skin
9. Classification of flaps and plasties : Z plasty, w plasty
10. Wound healing: skin, bone, nerve, tendon (uses of growth factors, stem cells and modulation of wound healing and repair)
11. Grafts: skin, bone, nerve, tendon
12. Transplantation & basic immunity
13. Wound dressing & dressing materials
14. Principles of negative pressure wound therapy
15. Tissue expansion
16. Fluid & electrolytes
17. Surgical nutrition
18. Critical care and anesthesia
19. Basis of skin resurfacing
20. Pre & post operation management of surgical patients
21. Management of complications in plastic surgery
22. Research methodology/computer and information technology
23. Medico legal implications

**Part II: Technical Subject**

**100 Marks**

1. Skin & soft tissue
  - 1.1. Benign skin lesions: pigmented and non pigmented
  - 1.2. Malignant skin lesions and its management
    - 1.2.1. Basal Cell Carcinoma, Squamous Cell Carcinoma, Sarcoma, Melanoma
    - 1.2.2. Mohs Micrographic Surgery
  - 1.3. LASERs in plastic surgery
2. Craniofacial
  - 2.1. Basic embryology of head and neck
  - 2.2. Genetics of congenital plastic surgical interest
  - 2.3. Principles of craniofacial abnormalities
  - 2.4. Vascular anomalies
  - 2.5. Cleft lip & palate
    - 2.5.1. Different types of repair
    - 2.5.2. Alveolar bone graft
    - 2.5.3. Orthopedics

लोक सेवा आयोग

नेपाल स्वास्थ्य सेवा, सर्जरी समूह, प्लाष्टिक सर्जरी उपसमूह, अधिकृत एघारौं (११) तहको (खुल्ला र आन्तरिक) प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

- 2.6. Cranio – synostosis: syndromic and nonsyndromic
  - 2.6.1. Management of craniosynostosis and associated syndrome
- 2.7. Craniofacial microsomia
- 2.8. Craniofacial clefts
- 2.9. Management of scalp defects
- 2.10. Maxillofacial trauma
  - 2.10.1. Types of craniofacial fractures : Le Fort fracture, fracture mandible
  - 2.10.2. Principles of management
  - 2.10.3. Immediate and late management
- 2.11. Head & neck cancer
  - 2.11.1. Reconstruction of: lips, cheeks, nose, eyelid, mandible, and oral cavity
- 2.12. Ear deformities and abnormalities
  - 2.12.1. Aetiology
  - 2.12.2. Classification
  - 2.12.3. Management of congenital & traumatic ear deformities.
  - 2.12.4. Various options for nose reconstruction
  - 2.12.5. Common oculoplasty surgeries
3. Breast and chest wall
  - 3.1. Breast reconstruction and augmentation
  - 3.2. Mastopexy
  - 3.3. Gynaecomastia
  - 3.4. Breast cancer & breast reconstruction
  - 3.5. Nipple reconstruction
  - 3.6. Chest wall defect & reconstruction
  - 3.7. Management of sternal wound dehiscence
4. Upper & Lower limb
  - 4.1. Congenital deformities: syndactyly, polydactyly, compylodactyly, trigger thumb, phacomalia, dimelia.
  - 4.2. Reconstruction surgeries in upper & lower limb
  - 4.3. Nerve compression and release
  - 4.4. Tendon transfer: basic principles and various techniques.
  - 4.5. Venous & arterial disease
  - 4.6. Trauma : frost bite, radiation injury
  - 4.7. Infection : leprosy; deformities and correction
  - 4.8. Metabolic conditions: diabetic foot, Gout and Polyderma gangrenosum
  - 4.9. Management of sole defects
  - 4.10. Management of brachial plexus injury
5. Flaps
  - 5.1. Common perforator flaps
  - 5.2. Muscle , musculocutaneous , septocutaneous flaps
  - 5.3. Prefabricate flaps and its use
  - 5.4. Loco regional flaps and its uses

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6. Micro surgery
  - 6.1. Principles of microsurgical and microneural procedures
  - 6.2. Vascularized bone transfer
7. Autoimmune: Lupus, Rheumatoid, Arthritis, PAN
8. Neoplasia: Basal Cell Carcinoma, Squamous Cell Carcinoma, Marjolin's ulcer
  - 8.1. Aetiology, classification, investigations and management
9. Lymphaedema : causes, and management
10. Pressure sores
  - 10.1. Causes and prevention
  - 10.2. Surgery for bed sores
  - 10.3. Communication with patients and their relatives
11. Urogenital conditions, its diagnosis and management
  - 11.1. Hypospadias
  - 11.2. Epispadias
  - 11.3. Ambiguous genitalia
  - 11.4. Vaginal agenesis
  - 11.5. Reconstruction of genitalia
  - 11.6. Principles of gender assignment surgery
12. Burns
  - 12.1. Types : thermal , electrical, chemical, radiation
  - 12.2. Zones of burn injury
  - 12.3. Pathophysiology of burns
  - 12.4. Estimation of burn injury
  - 12.5. Burn resuscitation
  - 12.6. Timing of surgery
  - 12.7. Post burn contracture reconstruction and its modalities
  - 12.8. Psychosocial impacts of burn injury
  - 12.9. Rehabilitation and prevention
13. Nutrition : Surgical nutrition and nutrition in acute burns
14. Aesthetic surgery
  - 14.1. Principles of aesthetic surgery
  - 14.2. Skin resurfacing
  - 14.3. Filler materials
  - 14.4. Face & forehead lift
  - 14.5. Rhinoplasty
  - 14.6. Liposuction and lipo filling
  - 14.7. Abdominoplasty
  - 14.8. Hair transplantation
  - 14.9. Scar revision
  - 14.10. Aesthetic breast surgery
  - 14.11. Botox, fillers, & thread
  - 14.12. Abdominoplasty and body contouring
15. LASERs: types & uses
16. Transplant surgery: hand and face