

# प्रदेश लोक सेवा आयोग

## गण्डकी प्रदेश

नेपाल स्वास्थ्य सेवा, सर्जरी समूह जनरल सर्जरी उपसमूह, नवौं (९) तहको खुला र आन्तरिक  
प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

### **Paper II: Technical Subject**

#### 1. BASIC & APPLIED

1.1. Required to have basic knowledge of Anatomy, Physiology, Biochemistry, Pathology, Pharmacology, Microbiology, Immunology & Genetics.

#### 1.2. Systems

- i. Respiratory Systems
- ii. Nervous Systems
- iii. Cardiovascular System
- iv. Endocrine System
- v. Musculoskeletal System
- vi. Gastrointestinal System
- vii. Genitourinary System
- viii. Hepatobiliary System

#### 2. BASIC PRINCIPLES

- 2.1. Metabolic response to injury
- 2.2. Shock and blood transfusion
- 2.3. Wound healing and repair
- 2.4. Surgical Infection
- 2.5. Tropical Infection and infestations
- 2.6. Basic Surgical Skills and anastomosis
- 2.7. Principles of Laparoscopic & Robotic Surgery
- 2.8. Principles of Paediatrics Surgery
- 2.9. Principles of Oncology
- 2.10. Surgical Audit & Research
- 2.11. Surgical ethics and law
- 2.12. Human factors, patient safety and quality

#### 3. INVESTIGATION AND DIAGNOSIS

- 3.1. Diagnostic Imaging
- 3.2. Gastrointestinal endoscopy
- 3.3. Tissue and Molecular diagnosis

#### 4. PERIOPERATIVE CARE

- 4.1. Preoperative care including high risk surgical patient
- 4.2. Anaesthesia and Pain relief
- 4.3. Nutrition and Fluid therapy
- 4.4. Post operative care
- 4.5. Day case Surgery

#### 5. TRAUMA

- 5.1. Early assessment and management of severe trauma
- 5.2. Traumatic brain injury
- 5.3. Neck and Spine
- 5.4. Torso Trauma
- 5.5. Extremity trauma
- 5.6. Disaster Surgery
- 5.7. Conflict Surgery

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### 6. SKIN AND SUBCUTANEOUS TISSUE

- 6.1. Skin and subcutaneous Surgical conditions
- 6.2. Burns
- 6.3. Plastics and Reconstructive Surgery

### 7. HEAD AND NECK

- 7.1. Cranial Neurosurgery
- 7.2. Cleft lip and palate
- 7.3. Disorders of Salivary Glands

### 8. BREAST AND ENDOCRINE

- 8.1. The Thyroid gland
- 8.2. The Parathyroid gland
- 8.3. The Adrenal glands and other Abdominal Endocrine glands
- 8.4. The Breast

### 9. VASCULAR

- 9.1. Arterial Disorders
- 9.2. Venous Disorders
- 9.3. Lymphatic disorders

### 10. ABDOMINAL

- 10.1. Abdominal wall hernia and umbilicus
- 10.2. The Peritoneum, Omentum, Mesentry and Retroperitoneal space
- 10.3. The Oesophagus
- 10.4. Stomach and Duodenum
- 10.5. Bariatric and Metabolic Surgery
- 10.6. The Liver
- 10.7. The Spleen
- 10.8. The Gallbladder and bile ducts
- 10.9. The Pancreas
- 10.10. The Small intestine
- 10.11. The Large intestine
- 10.12. Intestinal Obstruction
- 10.13. The Vermiform Appendix
- 10.14. The Rectum
- 10.15. The Anus and Anal Canal

### 11. GENITOURINARY

- 11.1. Urinary symptoms and investigations
- 11.2. Kidney and Ureters
- 11.3. The Urinary bladder
- 11.4. The Prostatic and Seminal Vesicals
- 11.5. Urethra and Penis
- 11.6. Testis and Scrotum

### 12. GENERAL CONSIDERATIONS

- 12.1. Fundamental principles in the operating theatre and the importance of global health.
- 12.2. Decision Making
- 12.3. Evidence based practice
- 12.4. Good Surgical practice
- 12.5. Communication Skills