

## **Paper II: Technical Subject**

- 1) General Principles of Trauma
  - a) Polytrauma, Mass casualty, Disaster management
  - b) Metabolic Response to trauma
  - c) Blood transfusion and its products
  - d) Fluid and Electrolyte balance
  - e) Shock
  - f) Nutritional support in surgical patient
  - g) Wounds and Fracture healing
- 2) Fractures and Joint Injuries
  - a) Principle of fracture, types grades, complication and its management
  - b) Compartment syndrome, VIC and its management
  - c) Infected Nonunion
  - d) Reflex sympathetic dystrophy/ Fracture diseases.
  - e) Fracture of lower extremity
  - f) Fracture of hip and pelvis
  - g) Fracture of upper extremity and shoulder
  - h) Spinal injury
  - i) Dislocation and Subluxation of joints
  - j) Traumatic disorders of joints, knee, shoulder, wrist and hands
  - k) Hand injury
  - l) Fracture and dislocations in children
- 3) Operative Surgery
  - a) Arthodesis
    - i) Arthodesis of lower extremities and Hip
    - ii) Arthodesis of upper extremities
    - iii) Arthodesis of spine
  - b) Arthroplasty
    - i) Arthroplasty of Hip
    - ii) Arthroplasty of Knee
  - c) Arthroscopy
    - i) Arthroscopy of Knee
    - ii) Arthroscopy of shoulder
  - d) Spinal Surgery
    - i) Surgery for Spinal Trauma
    - ii) Surgery for Spinal infection e.g. T.B.
    - iii) Anterior and posterior instrumentation of spine
    - iv) Other Procedures described in Campbell's Operative Surgery

प्रदेश लोक सेवा आयोग, प्रदेश नं. २  
स्वास्थ्य सेवा, सर्जरी समूह, अर्थोपेडिक्स सर्जरी उपसमूह, नवौ तहको खुला र अन्तर सेवा प्रतियोगितात्मक  
परीक्षाका लागि पाठ्यक्रम

4) Research Related

- a) Types of study
- b) Sampling techniques and types
- c) Probability and its test
- d) Medical Statistics
- e) Evidence Based Medicine
- f) Data presentation and analysis