

पाटन स्वास्थ्य विज्ञान प्रतिष्ठान सेवाआयोग
प्राज्ञिक सेवा, हाड जोर्नी रोग समूह, सहायक-प्राध्यापक पद, नवौं (९ ख) तहको
खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

Part II: Technical Subject

Section (A) - 45 Marks

1. **Applied Basic Sciences**
 - 1.1 Applied anatomy
 - 1.2 Applied Physiology
 - 1.3 Applied Pathology
 - 1.4 Applied Pharmacology
 - 1.5 Applied immunology
 - 1.6 Applied biostatics
 - 1.7 Applied research methods
 - 1.8 Applied Molecular biology and genetics

2. **Recent Advances**
 - 2.1 Arthroscopy
 - 2.2 Endoscopic surgery (Spine, Knee, etc)
 - 2.3 Illizarov external fixator
 - 2.4 Total joint replacement
 - 2.5 Limb sparing surgery
 - 2.6 Bone Banking, Laser surgery, etc.

3. **Emergencies: Orthopedics**
 - 3.1 Acute Osteomyelitis
 - 3.2 Septic Arthritis
 - 3.3 Compartmental Syndrome
 - 3.4 Cauda Equina Syndrome
 - 3.5 Necrotizing fasciitis

4. **Emergencies : Trauma**
 - 4.1 All fractures and dislocations
 - 4.2 Open fractures
 - 4.3 Crush injuries
 - 4.4 Hand injuries
 - 4.5 Spinal injuries

Section (B) - 55 Marks

5. **Principles and practice of : Orthopedic Surgery**
 - 5.1 General orthopedics
 - 5.2 Regional Orthopedics
 - 5.3 Pediatric Orthopedics
 - 5.4 Orthopedic Oncology
 - 5.5 Orthopedic Neurology

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- 5.6 Sports Medicine
- 5.7 Physical Medicine and Rehabilitation

6. **Principles and practice of : Trauma Surgery**

- 6.1 General principles of Trauma including Pathophysiology
- 6.2 General practice of Trauma: Early management of injured, Management of Polytrauma, Disaster, Mass casualty, and management of Neglected trauma
- 6.3 Definite management of Musculoskeletal injuries; their operative treatment and rehabilitation