

बी.पी. कोइराला मेमोरियल क्यान्सर अस्पताल
प्राविधिक (स्वास्थ्य) सेवा, मेडिकल (चिकित्सक) समुह, सर्जिकल अंकोलोजी (प्लास्टिक सर्जरी) उपसमुह, अधिकृत
नवौ तह, रजिष्ट्रार पदको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

यस पाठ्यक्रम योजनालाई दुई चरणमा विभाजन गरिएको छ :

प्रथम चरण :- लिखित परीक्षा (Written Examination)

पूर्णाङ्क :- २००

द्वितीय चरण :- अन्तर्वार्ता (Interview)

पूर्णाङ्क :- ३०

परीक्षा योजना (Examination Scheme)

प्रथम चरण (First Phase) : लिखित परीक्षा

Paper	Subject	Full Marks	Pass Marks	No. Questions & Weightage	Time Allowed
I	General Subject	100	40	10 × 5 = 50 (Short answer) 5 × 10 = 50 (Long answer)	3.00 hrs
II	Technical Subject	100	40	6 × 10 = 60 (Long answer) 2 × 20 = 40 (Problem Solving)	3.00 hrs

द्वितीय चरण (Second Phase)

Subject	Full Marks	Examination
Interview	30	Oral

द्रष्टव्य :

- यो परीक्षा योजनालाई प्रथम चरण (लिखित परीक्षा) र द्वितीय चरण (अन्तर्वार्ता) गरी दुई चरणमा विभाजन गरिएको छ ।
- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुनेछ ।
- प्रथम र द्वितीय पत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ ।
- परीक्षामा सोधिने प्रश्नसंख्या, अङ्क र अङ्कभार यथासम्भव सम्बन्धित पत्र/विषयमा तोकिए अनुसार हुनेछ ।
- विषयगत प्रश्नमा प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरू हुनेछन् । परीक्षार्थीले प्रत्येक खण्डका प्रश्नहरूको उत्तर सोही खण्डका उत्तरपुस्तिकामा लेख्नुपर्नेछ ।
- यस पाठ्यक्रममा जे सुकै लेखिएको भएतापनि पाठ्यक्रममा परेका ऐन, नियमहरू, परीक्षाको मिति भन्दा ३ महिना अगाडी (संशोधन भएका वा संशोधित भई हटाईएका वा थप गरी संशोधित भई कायम रहेका) लाई यस पाठ्यक्रममा परेको सम्झनु पर्दछ ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति :- २०७८/०३/०४

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Paper I: General Subject

Section (A): 40% Marks (4×5 marks, 2×10 marks)

1. Administration and Management

- 1.1. Public Administration: concept, scope, functions and challenges
- 1.2. Management: concept, scope, functions, principles, and its practices
- 1.3. Contemporary management issues and challenges
- 1.4. Hospital Management : concept, scope, function, principle and its practices
- 1.5. Human resource management: concept, functions and different aspects
- 1.6. Basic managerial skills: coordination and public relation, communication and counselling, problem solving and decision making, leadership, team building, rapport building, planning, organizing, monitoring and evaluation
- 1.7. Emerging management concepts and their application in the Nepalese Public Management: Time management, Resource management (human, financial and physical), Technology management, Performance management, Stress management, Conflict management, Risk management and Participative management
- 1.8. Planning: concept, principles, nature, types, instrument and steps
- 1.9. Motivation, appreciative inquiry and social responsibility
- 1.10. Positive attitude and self-development
- 1.11. Group dynamic and organizational behavior
- 1.12. Grievance redressal and settlement
- 1.13. Financial Management: Concept, Approaches, Budget Formulation and Implementation, Auditing and topics related to Fiscal administration

Section (B): 40% Marks (4×5 marks, 2×10 marks)

2. General Health Issues

- 2.1. Present Constitution of Nepal (health and welfare issues)
- 2.2. National Health Policy
- 2.3. Health sector in current periodical plan
- 2.4. Health Service Act, 2053 and Health Service Regulation, 2055
- 2.5. Professional council related acts and regulations
- 2.6. Act Regulating Narcotics
- 2.7. NMC and National Health Agencies
- 2.8. Indigenous and traditional faith healing and health practices
- 2.9. International health agencies: Role and responsibilities of WHO, UNICEF, UNFPA and interagency relationships
- 2.10. Health and Human Right including Women's Right, Children's Right, Professional's Right, Client Right and Informed consent
- 2.11. Gender issues and health
- 2.12. Urbanization and health impacts
- 2.13. National health training system
- 2.14. Supervision, types and its usage in Health Sector

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- 2.15. Monitoring and Evaluation System in Health
- 2.16. Health Management Information System
- 2.17. Health economics - basic terms, health insurance and financing in Health Care
- 2.18. Federal governance and decentralization in health
- 2.19. Evidence Based Medicine / Critical Appraisal of Scientific Literature
- 2.20. Principles of Research Methodology and Scientific paper writing/publication
- 2.21. Professional and medical ethics
- 2.22. Informed Consent and Medico legal Issues
- 2.23. Medical Audit and Quality Assurance
- 2.24. Information technology and Tele medicine
- 2.25. Drug act and regulation
- 2.26. Rational use of drugs, national drug policy and importance of essential drug list
- 2.27. Ethics, Integrity and Accountability of health professionals
- 2.28. Private sector health institution its regulation and management
- 2.29. Health institution development and management
- 2.30. Patient safety & Breaking Bad News
- 2.31. Cancer Registry: Hospital and Community Based Cancer Registry
- 2.32. Preventive Oncology
 - 2.32.1. Epidemiology
 - 2.32.2. Primary prevention (Cancer Awareness, Cancer Education, Vaccination)
 - 2.32.3. Secondary Prevention (Screening, Screening Methods)
- 2.33. Multidisciplinary Approach in Cancer Management

Section (C): 20% Marks (2×5 marks, 1×10 marks)

3. Organizational Knowledge

- 3.1. B.P.Koirala Memorial Cancer Hospital : History, organizational structure, functions, roles, services, possibilities, problems and challenges
- 3.2. Service provided by B.P.Koirala Memorial Cancer Hospital-service types, quality, technology, citizen engagement in service design
- 3.3. Relations between Government and other national and international related organizations
- 3.4. Health manpower recruitment and development in B.P.Koirala Memorial Cancer Hospital
- 3.5. B.P.Koirala Memorial Cancer Hospital related act and regulations

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Paper II : Technical Subject
Section (A) – 50 % 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 & neck
 - 2.2. Principles of craniofacial abnormalities
 - 2.3. Vascular anomalies
 - 2.4. Cleft lip & palate: management and orthopedics
 - 2.5. Cranio – synostosis: syndromic and nonsyndromic
 - 2.6. Craniofacial microsomia
 - 2.7. Craniofacial clefts
 - 2.8. Facial fracture and soft tissue injury
 - 2.8.1. Types of craniofacial fractures
 - 2.8.2. Principles of management
 - 2.8.3. Immediate and late management
 - 2.9. Head & neck cancer
 - 2.9.1. Reconstruction of: lips, cheeks, nose, eyelid, mandible, and oral cavity
 - 2.9.2. Simple reconstruction of head and neck deformities
 - 2.10. Ear deformities and abnormalities: aetiology, classification and management
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
4. **Upper & Lower Limbs**
 - 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:
 - 4.8.1. Diabetic foot
 - 4.8.2. Gout
 - 4.8.3. Polyderma gangrenosum

5. **Flaps**
 - 5.1. Different types of flaps
 - 5.2. Musculocutaneous flap planning
6. **Autoimmune**
 - 6.1. Lupus
 - 6.2. Rheumatoid
 - 6.3. Arthritis
 - 6.4. PAN

Section (B) – 50 % Marks

7. **Neoplasia: Basal Cell Carcinoma, Squamous Cell Carcinoma, Marjolin's ulcer**
 - 7.1. Aetiology
 - 7.2. Classification
 - 7.3. Investigations
 - 7.4. Management
8. **Lymphoedema : causes, and management**
9. **Pressure sores**
 - 9.1. Causes
 - 9.2. Prevention
 - 9.3. Surgery for bed sores
 - 9.4. Communication with patients and their relatives
10. **Urogenital conditions its diagnosis and management**
 - 10.1. Hypospadias
 - 10.2. Epispadias
 - 10.3. Ambiguous genitalia
 - 10.4. Vaginal agenesis
 - 10.5. Reconstruction of genitalia
11. **Burns**
 - 11.1. Types : thermal , electrical, chemical, Radiation
 - 11.2. Zones of burn injury
 - 11.3. Pathophysiology of burns
 - 11.4. Estimation of burn injury
 - 11.5. Burn resuscitation
 - 11.6. Timing of surgery
 - 11.7. Post burn contracture reconstruction and its modalities
 - 11.8. Psychosocial impacts of burn injury
 - 11.9. Prevention
12. **Nutrition**
 - 12.1. Surgical nutrition
 - 12.2. Nutrition in acute burns

13. **Aesthetic surgery**

- 13.1. Skin resurfacing
- 13.2. Filler materials
- 13.3. Face & forehead lift
- 13.4. Rhinoplasty
- 13.5. Liposuction
- 13.6. Abdominoplasty
- 13.7. Hair transplantation
- 13.8. Scar revision

14. **Cancer Diagnostics**

- 14.1. Role of radiological interventions
- 14.2. Molecular and cytogenetics
- 14.3. Tumor markers, IHC (Immunohistochemistry), Flowcytometry
- 14.4. Nuclear and radionuclear imaging
- 14.5. Interventional radiology
- 14.6. Basics of radiation oncology
- 14.7. Basics of surgical oncology
- 14.8. Basics of medical oncology

15. **General Surgical Principles**

- 15.1. Shock
- 15.2. Surgical infection
- 15.3. Fluid and electrolyte imbalance
- 15.4. Preoperative and post operative patient care
- 15.5. TNM classification of cancers