

निजामती कर्मचारी अस्पताल
प्राविधिक सेवा, सर्जरी समूह, अर्थोपेडिक सर्जरी उपसमूह, सिनीयर रजिस्ट्रार (स्पेसलिष्ट) पद, नवौं तहको खुल्ला
प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

यस पाठ्यक्रम योजनालाई दुई चरणमा विभाजनगरिएको छ :

प्रथम चरण :- लिखित परीक्षा (Written Examination)

पूर्णाङ्ग :– २००

द्वितीय चरण :- अन्तर्वार्ता (Interview)

पूर्णाङ्ग :– ३०

१. प्रथम चरण (First Phase): परीक्षा योजना (Examination Scheme)

Paper	Subject		Marks	Full Marks	Pass Marks	No. Questions & Weightage	Time
I	General Subject	Part I: Management	50	100	40	$6 \times 5 = 30$ (Short answer) $2 \times 10 = 20$ (Long answer)	3.00 hrs
		Part II: General Health Issues	50			$6 \times 5 = 30$ (Short answer) $2 \times 10 = 20$ (Long answer)	
II	Technical Subject			100	40	$4 \times 15 = 60$ (Critical Analysis) $2 \times 20 = 40$ (Problem Solving)	3.00 hrs

२. द्वितीय चरण (Second Phase)

Subject	Full Marks	Examination System
Interview	30	Oral

द्रष्टव्य :

- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुन सक्नेछ।
- अस्पतालको प्राविधिक सेवा अन्तर्गतका सबै समूह/सबै उपसमूहहरूको लागि प्रथमपत्रको पाठ्यक्रमको विषयवस्तु एउटै हुनेछ। तर द्वितीयपत्र Technical Subject को पाठ्यक्रम समूह/उपसमूह अनुरूप फरक फरक हुनेछ।
- प्रथम र द्वितीय पत्रको लिखित परीक्षा छुट्टाछुट्टै हुनेछ। परीक्षामा सोधिने प्रश्नसंख्या र अङ्गभार यथासम्भव सम्बन्धित पत्र, विषयमा दिईए अनुसार हुनेछ।
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरूको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्ग कट्टा गरिनेछ। तर उत्तर नदिएमा त्यस बापत अङ्ग दिइने छैन र अङ्ग कट्टा पनि गरिने छैन।
- वस्तुगत बहुवैकल्पिक हुने परीक्षामा परीक्षार्थीले उत्तर लेख्दा अंग्रेजी ठूलो अक्षर (Capital letter) A, B, C, D मा लेख्नुपर्नेछ। सानो अक्षर(Small letter) a, b, c, d लेखेको वा अन्य कुनै सझेकेत गरेको भए सबै उत्तरपुस्तिका रद्द हुनेछ।
- बहुवैकल्पिक प्रश्नहरू हुने परीक्षामा कुनै प्रकारको क्याल्कुलेटर (Calculator) प्रयोग गर्न पाइने छैन।
- विषयगत प्रश्नहरूको हकमा एउटै प्रश्नका दुई वा दुई भन्दा बढी भाग (Two or more parts of a single question) वा एउटा प्रश्न अन्तर्गत दुई वा बढी टिप्पणीहरू (Short notes) सोधन सकिने छ।
- विषयगत प्रश्नमा प्रत्येक पत्र/विषयका प्रत्येक खण्डका लागि छुट्टाछुट्टै उत्तरपुस्तिकाहरू हुनेछन्। परीक्षार्थीले प्रत्येक खण्डका प्रश्नहरूको उत्तर सोही खण्डका उत्तरपुस्तिकामा लेख्नुपर्नेछ।
- यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जेसुकै लेखिएको भएतापनि पाठ्यक्रममा परेका कानून, ऐन, नियम, विनियम तथा नीतिहरू परीक्षाको मितिभन्दा ३ महिना अगाडि (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठ्यक्रममा परेको सम्भन्नु पर्दछ।
- प्रथम चरणको परीक्षावाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ।
- पाठ्यक्रम लागु मिति : आ.व.२०७९/०८० देखि

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Paper I: General Subject
Part I: Management
(6 × 5) + (2 × 10) = 50 Marks

1. Management

- 1.1. Health care management system in Nepal and other parts of the world
- 1.2. Fundamental principles of healthcare institution and hospital management.
- 1.3. Effective hospital management principles
- 1.4. Purpose of medical and non-medical data and records
- 1.5. Ethics and responsibility of management
- 1.6. Concept of management and its application in health care including hospital
 - 1.7.1 Management: Concept, principles, functions, scope and role, level and skills of manager
 - 1.7.2 Planning: Concept, principles, nature, types, instruments and steps
 - 1.7.3 Leadership: Concept, function, leadership styles, leadership and management
 - 1.7.4 Coordination: Concept, types, techniques of effective coordination
 - 1.7.5 Communication and counselling: Concept, communication processes and barrier to effective communication, techniques for improving communication
 - 1.7.6 Decision making: Importance, types, rational process of decision making, problem solving techniques, improving decision making
 - 1.7.7 Participative management: Concept, advantage and disadvantage, techniques of participation
 - 1.7.8 Time management: Concept, essential factors and strategies for effective time management
 - 1.7.9 Conflict management: Concept, approaches to conflict, levels of conflict, causes of conflict and strategies for conflict management
 - 1.7.10 Stress management: Concept, causes and sources of stress, techniques of stress management
 - 1.7.11 Change management: Concept, sources of organizational change, resistance to change, management of resistance to change
 - 1.7.12 Appreciative inquiry: Concept, basic principle and management
 - 1.7.13 Human resource management: Concept, functions and different aspects
 - 1.7.14 Health manpower recruitment and development
 - 1.7.15 Financial management: Concept, approaches, budget formulation and implementation, Auditing and topics related to fiscal administration

Part II: General Health Issues
(6 × 5) + (2 × 10) = 50 Marks

2. General Health Issues

- 2.1. Present constitution of federal republic of Nepal (including health and welfare issues)
- 2.2. Organizational structure of Ministry of Health at national/federal, regional/state, district (if applicable), municipal and village council level
- 2.3. Professional council and related regulations
- 2.4. National Health Policy
- 2.5. Health Service Act and Regulation
- 2.6. Second Long term health plan
- 2.7. Health Management Information System, forms, indicators, annual reports
- 2.8. Human Development Indices, Sustainable Development Goals
- 2.9. Health volunteers in the national health system, its rationale, use and effectiveness

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- 2.10. Local governance and community participation in health service delivery
- 2.11. Health Insurance and financing in health care
- 2.12. Alternative health care system: Ayurveda, homeopathy, Unani, Chinese etc.
- 2.13. Indigenous and traditional faith health and health practices
- 2.14. International Health Agencies: Roles and responsibilities of WHO, UNICEF, UNFPA, Inter-agency relationships, Government-agency coordination: Joint Annual Review meeting
- 2.15. Supervision, types and its usage in health sector
- 2.16. Monitoring and evaluation system in health sector
- 2.17. National Health Training Centre
- 2.18. National and International Disaster Plan, Coordination
- 2.19. General introduction of Civil Service Hospital and its Bylaws

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Paper II : Technical Subject
Section (A) – 50 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) – 50 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