

**निजामती कर्मचारी अस्पताल**  
**प्राविधिक सेवा, सर्जरी समूह, युरोलोजी उपसमूह, सिनीयर रजिष्ट्रार (स्पेशलिष्ट) पद, नवौं तहको खुला तथा 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

**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 × 5 = 30<br>(Short answer)<br>2 × 10 = 20<br>(Long answer)           | 3.00 hrs |
|       |                   | Part II: General Health Issues | 50    |            |            | 6 × 5 = 30<br>(Short answer)<br>2 × 10 = 20<br>(Long answer)           |          |
| II    | Technical Subject |                                |       | 100        | 40         | 4 × 15 = 60<br>(Critical Analysis)<br>2 × 20 = 40<br>(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 अङ्कभार** यथासम्भव सम्बन्धित पत्र, विषयमा दिईए अनुसार हुनेछ ।
- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरूको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्क कट्टा गरिनेछ । तर उत्तर नदिएमा त्यस बापत अङ्क दिइने छैन र अङ्क 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 सङ्केत 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) सोध्न 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 सम्झनु पर्दछ ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति :

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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. Embryology and surgical anatomy of retroperitoneum
  - 1.1 Kidney
  - 1.2 Uterus
  - 1.3 Adrenal gland
  - 1.4 Other retroperitoneal structures
2. Embryology and surgical anatomy of lower urinary tract with congenital anomalies
3. Development of testes and congenital defects
4. Congenital defects in urology with special reference to hypospadias, epispadias.
5. Symptoms and signs of disorders of genito urinary tract
6. Urological laboratory investigations
7. Radiological investigation of urinary tract and retroperitoneal structures
8. Renal physiology and pathophysiology of
  - 8.1 Reno vascular hypertension
  - 8.2 Ischemic nephropathy
  - 8.3 Obstructive uropathy
  - 8.4 Acute and chronic renal failures
9. Basic principles of immunology in urology and renal transplantation
10. Pathophysiology and management of urinary tract obstruction: obstructive uropathy including benign prostatic hyperplasia and prostatic cancer

**Section (B) – 50 % Marks**

11. Genito urinary trauma and the basic principles and management
  - 11.1 Renal trauma
  - 11.2 Ureteric trauma
  - 11.3 Bladder trauma
  - 11.4 Urethral trauma
  - 11.5 Penile trauma
  - 11.6 Scrotal trauma
12. Infection and Inflammation of urinary tract
13. Voiding functions and dysfunction
14. Physiology and pharmacology in urinary bladder and urethra
15. Neurourological evaluation
16. Neuromuscular dysfunction of lower urinary tract
17. Reproductive function and dysfunction
18. Concept of endourology
19. Concept of common urological problem and their approaches in:
  - 19.1 Hematuria
  - 19.2 Obstructive uropathy

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- 19.3 Retention of urine
- 20. Urolithiasis and modern trend in their management.
- 21. Neoplasm of genito urinary system especially.
  - 21.1 Renal cell carcinoma (RCC)
  - 21.2 Transitional cell carcinoma (TCC)
  - 21.3 Cancer Penis
  - 21.4 Testicular tumors
  - 21.5 Adrenal tumors
- 22. Concept of urinary diversions
- 23. Radiotherapy and chemotherapy in urology
- 24. Disorders of testes, scrotum, spermatic cord and external genitalia
- 25. Male Infertility and Erectile dysfunction