

शहीद धर्मभक्त राष्ट्रिय प्रत्यारोपण केन्द्र
नेपाल स्वास्थ्य सेवा, सर्जरी समूह, यूरोलोजी उपसमूह, सिनियर रजिष्ट्रार/रजिष्ट्रार आठौं (८) तहको
प्रतियोगितात्मक परीक्षाको लागि पाठ्यक्रम

एवं परीक्षा योजना

यस पाठ्यक्रम योजनालाई दुई चरणमा विभाजन गरिएको छ :

प्रथम चरण :- लिखित परीक्षा (Written Examination)

पूर्णाङ्क :- २००

द्वितीय चरण :- अन्तर्वार्ता (Interview)

पूर्णाङ्क :- ३०

प्रथम चरण (First Phase) : लिखित परीक्षा योजना (Written Examination Scheme)

Paper	Subject		Marks	Full Marks	Pass Marks	No. Questions & Weightage	Time Allowed
I	General Subject	Part I: Management	35	100	40	3 × 5 = 15 (Short answer) 2 × 10 = 20 (Long answer)	3.00 hrs
		Part II: General Health Issues	35			3 × 5 = 15 (Short answer) 2 × 10 = 20 (Long answer)	
		Part III: Human Organ Donation & Transplantation	30			3 × 10 = 30 (Long answer)	
II	Technical Subject			100	40	10 × 10 = 100 (Long answer)	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 ।
- प्रथम पत्रको Part I, Part II र Part III को लागि छुट्टाछुट्टै (Part I को लागि एउटा, Part II को लागि एउटा र Part III को लागि एउटा) उत्तरपुस्तिका हुनेछ भने द्वितीय पत्रको लागि 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 छनोट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति :-

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Paper I: General Subject

(Management, General Health Issues, Human Organ Donation & Transplantation)

Part I: Management

1. Management: - concept, principles, functions, scope, role, level and skills of managers
2. Hospital management
3. Participative management: concept, advantages and disadvantages, techniques of participation
4. Time management: concept, advantages, and disadvantages
5. Conflict management: concept, approaches to conflict, levels of conflict, causes of conflict and strategies for conflict management
6. Stress management: concept, causes and sources of stress, techniques of stress management
7. Leadership: concept, functions, leadership styles, leadership and management effectiveness
8. Coordination: concept, need, types, techniques, and approaches of effective coordination
9. Communication: concept, communication process and barrier to effective communication, techniques for improving communication

Part II: General Health Issues

1. Present Constitution of Nepal (health and welfare issues)
2. National Health Policy, 2071
3. International health agencies: role and responsibilities of WHO, UNICEF, UNFPA and interagency relationships
4. Medical ethics in general and its application
5. Indigenous and traditional faith healing and health practices
6. Supervision, types and its usage in health sector
7. Monitoring and evaluation system in health
8. Health management information system
9. Health insurance and financing in health care
10. Effects of environment in public health: air pollution, domestic pollution, noise pollution
11. Importance of water, sanitation and hygiene in public health
12. Effects of disaster in public health: deforestation, land slide, flood, earthquake and fire
13. Health volunteers involvement in health service delivery
14. Counseling: - concept, type, importance and its application in health service delivery

Part III: Human Organ Donation and Transplantation

1. General concept of solid organ donation and transplantation
 - 1.1 History of organ transplantation in Nepal
 - 1.2 Immunology and immunosuppressant drugs used in organ transplantation
 - 1.3 Complications among organ transplant recipients and management
2. Human Organ Transplant Act and Regulations
 - 2.1 Human Organ Transplantation (Regulation and Prohibition) Act- 2055
 - 2.2 Human Organ Transplantation (Regulation and Prohibition) Act- 2072
 - 2.3 Human Organ Transplantation Regulations- 2073
 - 2.4 Concept and practice of international rules and regulations on organ donation and transplantation
3. General knowledge about Shahid Dharmabhakta National Transplant Center

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Paper II: Technical subject

Section (A): 40 %

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 and role of uro-dynamics in the assessment of various urological disorders.
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. Pathophysiology and management of urinary tract obstruction: obstructive uropathy including benign prostatic hyperplasia and prostatic cancer
 - 9.1 Physiology and pharmacology in urinary bladder and urethra

Section (B): 40 %

10. **Genito urinary trauma and the basic principles and management**
 - 10.1 Renal trauma
 - 10.2 Ureteric trauma
 - 10.3 Bladder trauma
 - 10.4 Urethral trauma
 - 10.5 Penile trauma
 - 10.6 Scrotal trauma
11. Infection and Inflammation of urinary tract
12. Voiding functions and dysfunction
13. Physiology and pharmacology in urinary bladder and urethra
14. Neurourological evaluation
15. Neuromuscular dysfunction of lower urinary tract
16. Concept of endourology
17. Concept of common urological problem and their approaches in:
 - 17.1 Hematuria
 - 17.2 Obstructive uropathy
 - 17.3 Retention of urine
18. Urolithiasis and modern trend in their management

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19. Neoplasm of genitor urinary system
 - 19.1 Renal cell carcinoma (RCC)
 - 19.2 Transitional cell carcinoma (TCC)
 - 19.3 Cancer penis
 - 19.4 Testicular tumors
 - 19.5 Adrenal tumors
20. Concept of urinary diversions
21. Radiotherapy and chemotherapy in urology
22. Disorders of testes, scrotum, spermatic cord and external genitalia
23. Male fertility and erectile dysfunction

Section (C): 20 %

24. **Organs Donation and Transplantation**
 - 24.1 Basic concept of organ donation and transplantation
 - 24.2 Assessment of the donor and recipient undergoing kidney transplantation
 - 24.3 Various investigations involved in kidney transplantation
 - 24.4 Concept of immunology and commonly used drugs used in kidney transplantation with their side effects
 - 24.5 Complications and their management in a renal transplant recipient