

पाटन स्वास्थ्य विज्ञान प्रतिष्ठान, सेवा आयोग

पा.स्वा.वि.प्र. सेवा, प्राध्यापन समूह, जनरल सर्जरी सहायक प्राध्यापकको
(खुल्ला र आन्तरिक) प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।

पाठ्यक्रम रूपरेखा:- यस पाठ्यक्रमको आधारमा निम्नानुसार दुई चरणमा परीक्षा लिइने छ :

प्रथम चरण :- लिखित परीक्षा पूर्णाङ्क :- १००

द्वितीय चरण :- अन्तर्वार्ता पूर्णाङ्क :- २०

प्रथम चरण - लिखित परीक्षा योजना (Examination Scheme)

विषय	पूर्णङ्क	उत्तिर्णाङ्क	परीक्षा प्रणाली	प्रश्न संख्या	समय
GeneralSubject & TechnicalSubject	१००	५०	वस्तुगत बहुउत्तर- MCQ (Multiple Choice)	१००X१ = १००	२ घण्टा

द्वितीय चरण -

विषय	पूर्णङ्क	उत्तिर्णाङ्क	परीक्षा प्रणाली
व्यक्तिगत अन्तर्वार्ता	२०	१०	मौखिक

द्रष्टव्य :

- (१) लिखित परीक्षाको माध्यम अंग्रेजीमा हुनेछ ।
- (२) लिखित परीक्षाको विषयवस्तु पाठ्यक्रम अनुसार हुनेछ ।
- (३) प्रश्नहरूको अंकभार निम्न अनुसार हुनेछ ।

S.N.	Subjects	Weightage
I.	Anatomy, Physiology, Surgical aspect, Surgical Pathology, Radiology, Oncology Research Methodology + Biostatistics	20
II.	General Surgery - Principle & practice of surgery - Surgical skills & procedure	40
III.	Recent Advances in Surgery	36
IV.	General Knowledge of Health service in Nepal	2
V.	General knowledge of Basic computer application	2

- (४) प्रथम चरणको परीक्षामा उत्तिर्ण परीक्षार्थीहरूलाई मात्र दोश्रो चरणमा समावेश गरिनेछ ।
- (५) पाटन स्वास्थ्य विज्ञान प्रतिष्ठान (कर्मचारी सेवा शर्त तथा सुविधा सम्बन्धी) नियमावली, २०६७ अनुसार हुनेछ ।
- (६) आन्तरिक प्रतियोगितात्मक परीक्षा व्यक्तिगत अन्तर्वार्ताको माध्यमबाट मात्र छनौट गर्न सकिने छ ।
- (७) पाठ्यक्रम लागू हुने मिति : २०७०/०५/२८

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पा.स्वा.वि.प्र. सेवा, प्राध्यापन समूह, जनरल सर्जरी सहायक प्राध्यापकको
(खुल्ला र आन्तरिक) प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम ।

Part I: General Subject

1. Institutional Management
2. Organization of faculty/department
3. Prevention/Risk for non-communicable diseases
4. Financing planning
5. Scientific paper writing
6. Research methodology/ Research activities
7. National Health Statistics, analysis particular in relation to non-communicable diseases.
8. Information technology, Tele medicine etc.

Part II: Technical Subject

1) Basic & Applied

a) Applied Surgical Anatomy

i) Required to have acknowledge of the structure and function of all system of the body

where applicable to common clinical conditions

ii) Knowledge of histology to understand the function to tissue and organs as well as growth,

degeneration and repair

iii) Embryological basic of those common congenital anomalies.

b) System

i) Nervous system

ii) Respiratory system

iii) Cardiovascular system

iv) Endocrine system

v) Muscal skeletal system

vi) General – eg. Acide base balance, fluid and electrolyte balance, nutrition, metabolic response to trauma and sepsis etc.

2) Applied Physiology

3) Surgical Pathology

a) Knowledge of the principles of pathology and microbiology virology in context of surgery

including inflammation, infection, neoplasm, response on the tissues to injury
disturbance of
growth, degeneration processes, repair and regulation.

- b) Immunology, Genetics
- c) Neoplastic diseases
- d) Pathology specimens and etc.
- e) Nervous system
- f) Respiratory system
- g) Cardiovascular system
- h) Genito-urinary system
- i) Gastrointestinal system
- j) Muscle skeletal system

4) Critical Case

- a) Emphasis on pathos physiological and fundamental surgical situation eg.
Trauma, shock,
organ failure, infection etc.
- i) Clinical pictures
- ii) Investigation
- iii) Diagnosis confirmation
- iv) Management – use of equipments
- v) Monitoring – complications
- vi) Counseling – communication
- vii) Follow-up

5) Surgical Management

- a) Broad Knowledge of principle of management
- i) Clinical practice
- ii) Investigation
- iii) Diagnosis
- iv) Treatment- Conservative, operations, palliative
- v) Monitoring
- vi) Follow-up – of the condition of
 - (1) Nervous system
 - (2) Respiratory system
 - (3) Cardiovascular system
 - (4) Gastro intestinal System
 - (5) Genitourinary system
 - (6) Endocrine and breast
 - (7) Musculo skeletal system and soft tissue

(8) Trauma/Polytrauma

6) Principles of Surgery

a) Knowledge of the General principle of the practice of Surgery

i) Imaging techniques/interventional Radiology

ii) Endoscopy/Laproscopy

iii) Surgery at extremes of life

iv) Theatre techniques

(1) Aseptic techniques – sterilization

(2) Anaesthesia in general, maintenance of homeostasis

(3) Basic techniques – suturing material dressing plaster

(4) Diathermy

(5) Tourniquet

v) Wound healing, dehiscence, scar, contractures

vi) Post operative complication and management

vii) Sepsis in surgery

(1) Acute and Chronic, inflammation

(2) Wound infection and septicemia

(3) Sp, infection, TB, Leprosy, AIDS, Bacterial infection

(4) Antiseptic, Antibiotic policies

7) Operation Surgery

a) Nervous System

i) Exposure to extra dural haematoma

ii) Skull traction

iii) Nerve repair and transplant

iv) Trauma –skull, spine

b) Respiratory System

i) F.B. in respiratory tract

ii) Tracheostomy, Laryngostomy

iii) Chest Drainage

iv) Thoractomy

v) Chest trauma (variety of injuries)

c) Cardiovascular

i) Cardio tamponade

ii) Exposure to artery and vein, embolectomy

iii) Amputations

d) Gastrointestinal System

i) All type of GI Surgery of all magnitude and types

ii) Different combination of operation

(1) Except- transplantation

e) Genito urinary system

i) Suprapubic bladder drainage

ii) Cystoscopy

iii) Exposure of kidney, calculus, obstructive uropathy

iv) Perinephric abscess

v) Scrotal/testicular operation

vi) Ectopic pregnancy/other pelvic surgery

f) Endocrine and breast

i) Thyroid/parathyroid

ii) Breast surgery (no reconstruction)

g) Musculo skeletal and soft tissue

i) Simple skeletal traction

ii) Compartmental syndrome

iii) Bone infection

h) Plastic

i) Simple cleft lip repair

ii) Skin grafting/flaps

iii) Skin lesion

iv) Lymphnode and biopsy

i) Other

i) Venesection central line

ii) Laryngoscope, ET intubation

iii) FNAC/trucut needle biopsy

iv) Defibrillation

8) Recent advance

a) Research-inside country

b) Recent advance – international

c) Not published research work

d) Future national vision