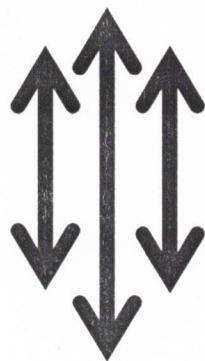


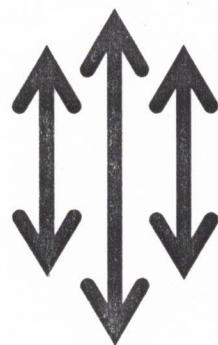
नेपाली सेना

श्री भर्ना छनौट निर्देशनालय, कार्यरथी विभाग,

जंगी अड्डा



प्रा. उ.से. Bachelor in pharmacy (खुल्ला तथा  
आन्तरिक) पदको लिखित परीक्षाको पाठ्यक्रम



२०७८

### नेपाली सेना

### प्रा.उ.से. Bachelor in Pharmacy (खुल्ला तथा आन्तरिक) पदको लिखित परीक्षाको पाठ्यक्रम

समय: ४ घण्टा १५ मिनेट

पूर्णाङ्क : १५०

उत्तीर्णाङ्क : ६०

यो पाठ्यक्रम नेपाली सेनाको प्रा.उ.से. Bachelor in Pharmacy (खुला तथा आन्तरिक) पदका उम्मेदवार छनौट परीक्षाको लागि निर्धारण गरिएको हो । लिखित परीक्षामा सरिक हुने उम्मेदवारहरूको पेशा सम्बन्धी विषयलाई आधारमानी प्रश्नहरू सोधिने छ ।

- (क) लिखित परीक्षाको माध्यम नेपाली/अंग्रेजी वा दुवै भाषा हुनेछ ।
- (ख) लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र अर्को चरणको परीक्षामा सम्मिलित गराईनेछ ।
- (ग) प्रश्नपत्र निर्माण गर्दा पाठ्यक्रममा समावेश भएका सबै विषयहरूलाई यथासंभव समिटनेछ ।
- (घ) बस्तुगत र विषयगत संयुक्त रूपमा पूर्णाङ्क र उत्तीर्णाङ्क कायम गरिनेछ ।
- (ङ) बस्तुगत र विषयगत परीक्षाको पाठ्यक्रम एउटै हुनेछ ।
- (च) बस्तुगत र विषयगत विषयको लिखित परीक्षा एकैपटक वा छुट्टाछुट्टै गरी लिन सकिनेछ ।
- (छ) यो पाठ्यक्रम मिति २०७८/०५/११ गतेबाट लागु हुनेछ ।

### लिखित परीक्षाको योजना र पाठ्यक्रम

विषय	पूर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली		प्रश्न संख्या अङ्क	समय
पेशा सम्बन्धी	७५	६०	बस्तुगत (Objective)	बहु वैकल्पिक प्रश्न (MCQs)	७५ प्रश्न x १ अङ्क = ७५	१ घण्टा १५ मिनेट
	७५		विषयगत (Subjective)	छोटो उत्तर लामो उत्तर	९ प्रश्न x ५ अङ्क = ४५ ३ प्रश्न x १० अङ्क = ३०	३ घण्टा

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## नेपाली सेना

प्रा.उ.से. Bachelor in Pharmacy (खुला तथा आन्तरिक) पदको लिखित परीक्षाको पाठ्यक्रम

### Section A- 25 Marks

#### 1. Development of Pharmacy and Drug legislation in Nepal.

- 1.1 Pharmaceutical development in Nepal
- 1.2 Pharmaceutical institutions in Nepal
- 1.3 Drug Legislation In Nepal
- 1.4 National Health Policy National Drug Policy and their relation
- 1.5 Role and responsibility

#### 2. Drug act and Pharmacopeia

- 2.1 Legislation
  - (a) Drug act, 2035 regulation
  - (b) Drug regulation 2038
  - (c) Narcotic Drug act 2033
  - (d) Drug consultative council and Drug advisory committee regulation 2037
  - (e) Drug Inspection regulation 2040
  - (f) Drug Standard regulation 2043
  - (g) Good Manufacturing Practice
  - (h) Nepal Pharmacy council act and regulations
- 2.2 (a) Pharmacopoeia :Pharmacopoeial standards and their needs importance and application of pharmacopoeial specification

### Section B- 95 Marks

#### 3. Pharmacology

- 3.1 Mechanism of action of drug, their safety, uses and mode of administration.


- 3.2 Pharmacokinetics, pharmacodynamics and pharmacological evaluation of drugs.
- 3.3 Poisoning : Control and treatment
- 3.4 Adverse drug reaction and drug interactions
- 3.5 Drugs used in various system like CNS, CVS, GIT, urinary system, respiratory system, haemopoietic system, endocrine system etc
- 3.6 Discovery and development of new drugs. (Various phases of clinical trials)

#### 4. Pharmaceutical Care

- 4.1 Comprehensive knowledge of clinical and hospital pharmacy patient counseling and dosage adjustment in elderly, impaired liver and kidney disease, use of drug in neonates, children , pregnancy and lactation.
- 4.2 Standard treatment schedule and rational use of drugs
- 4.3 Pharmacovigilance
- 4.4 Epidemiology

#### 5. Community pharmacy

- 5.1 Definition, scope, types ,Roles and responsibilities, Good community pharmacy practice.
- 5.2 Pharmaceutical calculations.
- 5.3 Communication skill.
- 5.4 Role of pharmacist in OTC drugs, Immunization, Nutrition and dietary supplements, smoking, Chronic diseases.

#### 6 Hospital pharmacy

- 6.1 Definition, History, Development, Organization and structure, Function and objectives.
- 6.2 Drug store management and inventory control.
- 6.3 Drug distribution system in hospitals.
- 6.4 Hospital manufacturing and prepackaging.
- 6.5 Role of pharmacist in different Hospital committee(DTC, Infection control committee, Antibiotic monitoring committee etc) and rational use of drugs.
- 6.6 Computer application in hospital pharmacy.

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7 **Clinical pharmacy**

- 7.1 Introduction, Objective, Scope, Role.
- 7.2 Prescribing guidelines.
- 7.3 Drug interactions, Drug dependence.
- 7.4 Therapeutic drug monitoring.

8 **Pharmacotherapeutics**

- 8.1 Basic concept of pharmacotherapy.
- 8.2 Cardiovascular disorders
- 8.3 CNS disorders
- 8.4 Respiratory disease
- 8.5 GI disorders
- 8.6 Endocrine disorders
- 8.7 Haemopoietic disorders
- 8.8 Joint and connective tissue disorders
- 8.9 Infectious disease
- 8.10 Neoplastic disease

**Section C- 30 Marks**

9. **Pharmaceutical Management**

- 9.1 Concept of management.
- 9.2 Logistic management (Selection, procurement, storage and distribution)
- 9.3 Drug financing schemes (Cost recovery share and insurance)

10. **Pharmaceutics/Microbiology:**

- 10.1 Prescription, proper handling of Prescription, incompatibilities.
- 10.2 Pharmaceutical dosage forms Fast Immediate, Sustained/ controlled release including novel drug delivery System eg. Mucosal drug delivery System.

*Jaleel* *H* *MV* *36N1*

10.3 Good manufacturing practice, WHO certification scheme on quality of Pharmaceutical products moving in international commerce and its usefulness for quality assurance, packaging and stability of Pharmaceutical products, costing of Pharmaceutical formulation and prediction of maximum retail price.

10.4 Rate and order of reaction, accelerated stability testing and Shelf Life of drugs, Solution of electrolytes, Buffered and isotonic solution.

10.5 Bioavailability and Bioequivalence studies.

10.6 Microbial contamination test in Pharmaceuticals, food water and environment.

10.7 Methodology of sterilization.

10.8 Immunity, Antigen and antibody.

यस विषयको पाठ्यक्रममा एकाईहरुबाट सोधिने प्रश्नहरुका संख्या निम्ननामुसार हुनेछ ।

Unit no	Weightage	MCQ's	छोटो उत्तर प्रश्नको संख्या	लामो उत्तर प्रश्नको संख्या
1	25	15	10	
2				
3	95	50	25	$10 \times 2 = 20$
4				
5				
6				
7				
8				
9	30	10	10	$10 \times 1 = 10$
10				
जम्मा	150	75 प्रश्नx1=75	9 प्रश्नx5=45	10 प्रश्नx3=30

### प्रयोगात्मक परीक्षाको पाठ्यक्रम

समय: ६० मिनेट

पूर्णाङ्क: ५०

उत्तीर्णाङ्क: २५

SN	Topic	Full marks	Time(Minutes)
1	Prescription handling and dispensing	10	15
2	Patient Counselling	10	10
3	Pharmacy store management	10	15
4	Viva	20	20

### समाप्ति