



COUNCIL OF THE PHARMACEUTICAL SOCIETY OF UGANDA

GUIDE TO MEMBERSHIP EXAMINATION

October 2017

Preamble

Members of the Pharmaceutical Society of Uganda (PSU) offer a vital set of professional services for the benefit of patients and the general public. To ensure that they are adequately prepared for the various professional tasks, individuals aspiring for membership to the PSU undergo intensive supervised exposure to real life pharmacy practice settings and challenges.

At the end of this practical exposure, an examination is administered to determine whether an aspiring individual has acquired the necessary competencies to be a member of the Society and eventual registration as pharmacist in Uganda.

This manual provides a framework of the examinable areas to guide the aspirants and the examiners. The examination includes but is not limited to hospital pharmacy practice, General/Community pharmacy practice, industrial pharmacy practice, regulatory pharmacy practice, supply chain pharmacy practice, clinical pharmacy practice/pharmaceutical care, veterinary pharmacy practice, pharmacy law and ethics and concepts and applications of leadership and management.

The examination requires a practical approach and candidates are expected to use academic knowledge and skills acquired during undergraduate/graduate training and the practical exposure in internship to solve society problems.

Format of assessment

A variety of assessment methods will be used in this examination. This will include but not limited to;

1. Simulated scenarios
2. Direct narrative questions/essays
3. Clinical case studies
4. Multiple choice questions

1.0 Drug Regulation

Expected outcome

The candidate should be fully conversant with and apply all the relevant laws and regulations governing pharmacy practice in Uganda.

Content

This section covers but not limited to the following areas;

- 1.1 Legal frame and policies in place to control drugs in Uganda :
 - National Drug Policy and Authority Act
 - Pharmacy & Drugs Act
 - Narcotic and psychotropic Substance Control Act
 - Regulations/statutory instruments under National Drug Policy and Authority Act
- 1.2 Various activities performed by National Drug Authority in controlling all drugs;
 - Licensing
 - Drug Registration
 - Pharmacovigilance
 - Good Manufacturing Practices compliance
 - Drug Import/export/disposal
 - Quality control of medicines including Labelling
 - Enforcement
 - Clinical trials

2.0. Medicines and supply Chain Management

This section of the manual outlines the key medicines and supply chain management competencies. Medicines and supply chain management is a sub-specialty in pharmacy practice concerned with managing the exchange of supplies, and the related information and resources among the different stakeholders including health facilities, distributors/wholesalers, regulatory authorities, and manufacturers.

Expected outcomes

The individual aspiring to be a member of the pharmaceutical society should be able to:

- Select appropriate vendors of medicines and medical supplies
- Determine quantities of medicines and medical supplies for a health facility and institution
- Interpret and comply with legislations and regulation related to procurement, storage, marketing, sale, transport and disposal of pharmaceutical and biological products, medical devices, laboratory chemicals, and related materials used in healthcare
- Set up and implement a stock management system
- Design and implement good distribution practice systems
- Practice and promote appropriate use of medicines

Content

- 1.1 Select appropriate vendors of medicines and medical supplies

The key issues include but not limited to:

- Development of selection criteria
- Application of selection criteria
- Manage tenders

1.2 Determine quantities of medicines and medical supplies for programmes, projects, health facilities and institutions

The key issues include but not limited to:

- Selection of an appropriate method or mix of methods for quantification
- Application of the selected method(s) for quantification

1.3 Interpret and comply with legislations, policies and regulation related to procurement, storage, transport and disposal of pharmaceutical and biological products, medical devices, laboratory chemicals, and related materials used in healthcare.

The key issues include but not limited to:

- The relevant national and international laws, policies and regulations for different types and categories of supplies
- Operational requirements for compliance with the laws and legislations

1.4 Set up and implement a stock management system

The key issues include but not limited to:

- Documentation methods
- Stock control methods

1.5 Design and implement good distribution practice systems

The key issues include but not limited to:

- Systems for preserving quality of pharmaceutical and biological products, medical devices and other healthcare supplies during storage and transportation
- System for post market surveillance
- Other good distribution practices

1.6 Practice and promote appropriate use of medicines

The key issues include but are not limited to:

- National Medicines and Health Supplies List
- Medicines and therapeutics committees
- Institutional/facility-based medicines and medical supplies list
- Medicine use problems and interventions

- Pharmacovigilance

3.0 Clinical pharmacy/pharmaceutical care

An aspiring member of PSU is expected to integrate and apply the study of pathophysiology, physical assessment, pharmacology, medicinal chemistry, therapeutics, clinical pharmacokinetics, patient care, alternative and complementary therapies, pharmacoeconomic issues, medication use in special populations, and review of pertinent drug literature as they relate to the major diseases. This section of the manual outlines the key competence and areas of focus for clinical pharmacy practice.

Expected outcomes

During the examination, the candidates will be required to;

- Demonstrate knowledge of the different diseases
- Be able to integrate knowledge of pharmacology, medicinal chemistry and therapeutics in management of patients with the different diseases
- Demonstrate ability to apply clinical pharmacokinetics principles in patient care
- Be able to design and formulate a pharmaceutical care Plan for patients with different diseases
- Be able to manage patients with different diseases appropriately
- Be able to plan for therapeutic follow-up and outcome monitoring required to facilitate continuity of care
- Be able to interpret relevant clinical and laboratory data and apply the information in patient care
- Be able to identify and critically review literature related to disease care; and apply the literature in patient care.

Content

The examinable areas include, but not limited to, the following body systems/conditions;

- 1.1 Urinary system
- 1.2 Cardiovascular system
- 1.3 Respiratory system
- 1.4 Gastrointestinal system
- 1.5 Central nervous system-psychiatric and neurological conditions, substance abuse
- 1.6 Endocrine system
- 1.7 Reproductive system
- 1.8 Infections and infestations

4.0 Professionalism, Pharmacy law and ethics

An aspiring member of PSU is expected to appreciate, apply and adhere to the professional, legal and ethical issues related to practice of pharmacy in Uganda.

Expected outcome

A candidate should be able to

1. Exhibit acceptable personal conduct and attitudes
2. Demonstrate knowledge of guiding literature on good professional practice
3. Relate the above knowledge to real practice

Content

1.1 Knowledge, will include the following:

- Principles: Ethical principles in relation to practical situations
- Primary legislation:
 - Pharmacy and Drugs Act,
 - National Drug Policy and Authority act,
 - National Medical Store Act,
 - Employment Act
- Subsidiary legislation:
 - PSU bye laws,
 - PSU Code of conduct,
 - National Drug Policy and Authority regulations
- Organizational instruments:
 - Work place policy,
 - guidelines,
 - protocols, etc

4.2 Skills

- Planning and Organization skills
- Communication skills
- Analytical skills

4.3 Attitude and Personal conduct, which involve judgment in relation to the following:

- Clients and the general public
- Superiors, and work generally
- Peers and subordinates

5.0 General/Community pharmacy practice

This section of the manual outlines the required competencies related to dispensing, compounding, general management, public health and veterinary pharmacy practice.

Expected outcomes

The candidate should be able to;

- Appropriately process prescriptions
- Appropriately dispense prescriptions and over the counter medicines
- Appropriately make extemporaneous preparations
- Demonstrate managerial and leadership skills
- Identify and provide solutions to community problems
- Provide appropriate veterinary pharmaceutical care

Content

The focus areas for this section includes but not limited to;

- 1.1 Dispensing and compounding
- 1.2 General management and leadership
- 1.3 Public health including family planning
- 1.4 Veterinary pharmacy practice

6.0 Pharmaceutical manufacturing/industrial pharmacy practice

An aspiring member of PSU is expected to integrate and apply Pharmaceutics and drug analysis in Pharmaceutical manufacturing and Quality Assurance.

Expected outcomes

The candidate should be able to;

Demonstrate his/her knowledge of Pharmaceutical manufacturing environs

Demonstrate his/her knowledge of drug manufacture

Demonstrate his/her knowledge of drug analysis

Content

The focus areas for this section includes but not limited to;

- 6.1 Location of a Pharmaceutical factory
- 6.2 Premises design and layout of a Pharmaceutical factory
- 6.3 Pharmaceutical factory utilities: water, Air, Humidity, ventilation and waste disposal
- 6.4 Equipment used in Pharmaceutical factory
- 6.5 Manufacturing processes of various dosage forms including in-process checks
- 6.6 Quality Assurance in Pharmaceutical factory
- 6.7 Quality control in Pharmaceutical factory
- 6.8 Drug Regulation in Pharmaceutical factory
- 6.9 Research and Development