



**PHARMACY COUNCIL OF THE GAMBIA**  
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# **NOVEMBER 2020 PRE-REGISTRATION EXAMINATION GUIDE FOR PHARMACISTS, PHARMACY TECHNICIANS AND NURSE DISPENSERS**

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## **OBJECTIVES**

- TO PROVIDE A GENERAL GUIDE TO CANDIDATES ON REQUIRED FIELDS OF KNOWLEDGE TO REVISE IN PREPARATION FOR THE EXAMINATION
- TO INFORM CANDIDATES ABOUT THE CREDITS(QUESTIONS) FOR EVERY REQUIRED FIELD OF KNOWLEDGE
- TO INFORM CANDIDATES ABOUT THE GENERAL STRUCTURE OF THIS EXAMINATION

## **UNDERSTANDING AND USAGE OF THE GUIDE**

- ✓ All questions to attempt in this examination shall come from the six (6) areas of knowledge below.
- ✓ The number of questions/credits for each area is indicated in blue next to be heading.
- ✓ Dispensing/Pharmacy Assistants shall be examined on their foundational (basic) knowledge of these areas of knowledge.
- ✓ Pharmacy Technicians and Nurse dispensers shall be examined on their intermediary (fairly deep) knowledge of these areas of knowledge.

## **STRUCTURE OF THIS EXAMINATION**

- ✓ It shall be only one (1) session of written examination
- ✓ The format shall be only Multiple-Choice Questions (MCQs)
- ✓ There shall be one hundred (100) MCQs to attempt
- ✓ Sixty (60) minutes shall be the time allowed for this examination
- ✓ Minimum pass mark is seventy (70) per cent.

## **VENUE**

Due to the total number of candidates processed to sit for this session, the venue is at the conference hall of the Directorate of National Pharmaceutical Services, CMS, Kotu.

## AREAS/TOPICS OF REQUIRED KNOWLEDGE

### 1. FUNCTIONAL HUMAN ANATOMY AND PHYSIOLOGY (15 QUESTIONS)

Knowledge of the human body with respect to

- The musculoskeletal system;
- Cardiovascular system;
- Nervous system;
- Respiratory system;
- Digestive tract;
- The urogenital tract;
- Sense organs (ENT, eye, skin).

### 2. PATHOLOGY- (10 QUESTIONS)

Knowledge of the most common medical and surgical pathology with emphasis on their therapeutic management; Prevention and counseling

- Infectious diseases (parasitic, bacterial, viral and fungal);
  - Pathologies of Respiratory, Dermatological, Digestive, Cardiovascular system;
- Allergies and other immunological disorders;
- Dentistry and dental diseases;
- Disorders of the sensory system (eyes, ears, nose, throat (ENT));
- Psychiatric disorders;
- Addiction;
- Endocrine and metabolic diseases;
- Blood diseases.

### 3. PHARMACEUTICAL CALCULATIONS – (15 QUESTIONS)

- Calculations required for sterile and non-sterile mixtures
- Dilution of concentrated solutions;
- Allegation and dose of parenteral medicines;
- Medicines administration protocols;
- Infusion package;
- Infusion pump;
- Calculating the duration / speed of infusion;
- Calculating the molecular weight of a medicament;
- Calculating the dose of a medicament.

### 4. PHARMACOLOGY – (20 QUESTIONS)

Knowledge of the basics of general pharmacology and pharmacological properties of medicines

- Overview of Pharmacology
  - The routes of medicines administration,
  - Pharmacokinetics (including absorption, distribution and excretion from the body),
- The mechanism of action of medicines;

- Overview of the medicines
  - Definitions,
  - Development of the drug;
  - Preparation, composition and classification;
  - Concept of essential drugs;
  - Generic medicine;
  - Use of drugs;
  - antidotes
  - Pharmacovigilance (drug adverse effects)
- Properties of medicines
  - Analgesics;
  - Anti-inflammatory;
  - Antibiotics;
  - Antiretrovirals (ARVs);
  - Contraceptives;
  - Antacids;
  - Anticancer and other drug classes.
- Therapeutic classes of medicines
  - The cardiovascular system drugs;
  - The central nervous system drugs (anaesthetics)

## 5. PHARMACY LAWS & PRACTICE- (30 QUESTIONS)

- Pharmacy Council Act, 2014
- Medicines and Related Products Act, 2014
- Rational use of medicines
- Good dispensing practices
- Patient education and counseling
- Medication errors
- Prescription orders and rules

## 6. LOGISTICS – (10 QUESTIONS)

- Introduction to Logistics Management and system of logistics management information;
- The assessment of the status of stocks;
- Systems of maximum-minimum inventory control;
- Management tools in stock;
- Regulatory requirements for effective management of medicines -refer to PCG Standards of Pharmacy Practice: [www.gpc.gm](http://www.gpc.gm) >Downloads>>Standards/Requirements
- Procedures
  - Removal of expired drugs -refer to MCA guideline: [www.mca.gm](http://www.mca.gm)
  - Destruction of expired drugs -refer to MCA guideline: [www.mca.gm](http://www.mca.gm)

