

# Pre-registration Examination Online Workshop 2021



South African  
Pharmacy Council



# Format of the workshop

- ▶ Format and content of the examination
- ▶ Preparing for calculation questions
- ▶ Preparing for general questions
- ▶ Examples of calculation questions
- ▶ Examples of general questions



# Format of the workshop

- ▶ Format and content of the examination
- ▶ Preparing for calculation questions
- ▶ Preparing for general questions
- ▶ Examples of calculation questions
- ▶ Examples of general questions



# Format of the pre-registration examination



Open book online examination

120 multiple choice questions



4 hours 30 min



Pass mark 50%

No negative marking



30% Calculation MCQs



2 hours



Subminimum of 60%



70% General MCQs



2 hours 30 min



Subminimum of 50%



# Practice Examination



**Provides interns with an opportunity to experience the online examination conditions prior to writing the examination**

- COMPULSORY for all interns
- Does not contribute towards the intern's pre-registration assessments.
- Written in one day, over four and a half (4 1/2) hours.
  - Calculation section 2 hours
  - Break 15 minutes
  - General section 2 1/2 hours

Three practice examinations held annually



# Exam Content

## 2018 Competency Standards for Pharmacists

### Domain 1

PUBLIC HEALTH

### Domain 2

SAFE AND RATIONAL USE OF MEDICINES AND MEDICAL DEVICES

### Domain 3

SUPPLY OF MEDICINES AND MEDICAL DEVICES

### Domain 4

ORGANISATION AND MANAGEMENT SKILLS

### Domain 5

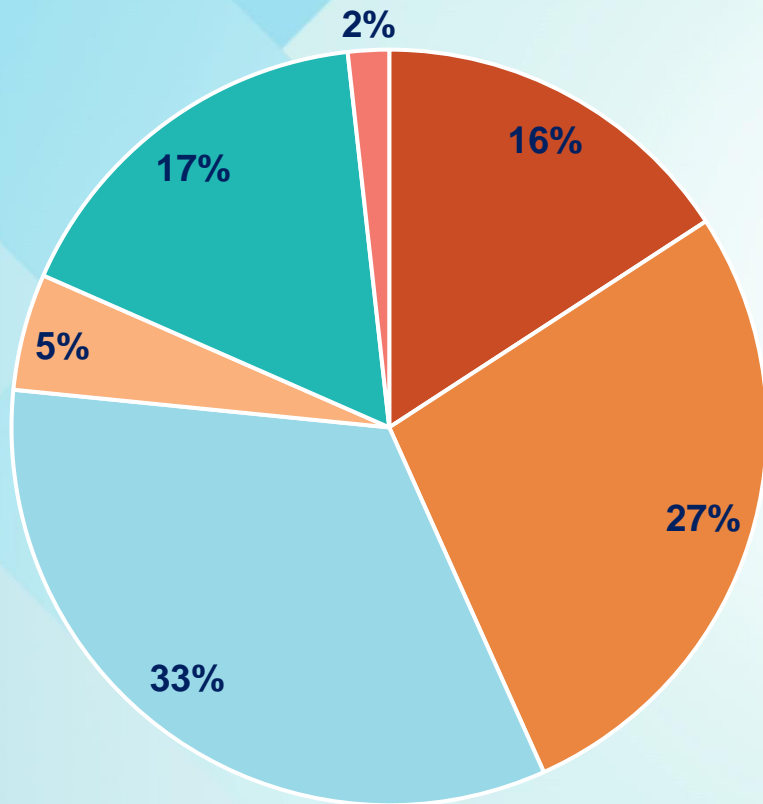
PROFESSIONAL AND PERSONAL PRACTICE

### Domain 6

EDUCATION, CRITICAL ANALYSIS AND RESEARCH



# Exam Blueprint



- Domain 1
- Domain 2
- Domain 3
- Domain 4
- Domain 5
- Domain 6



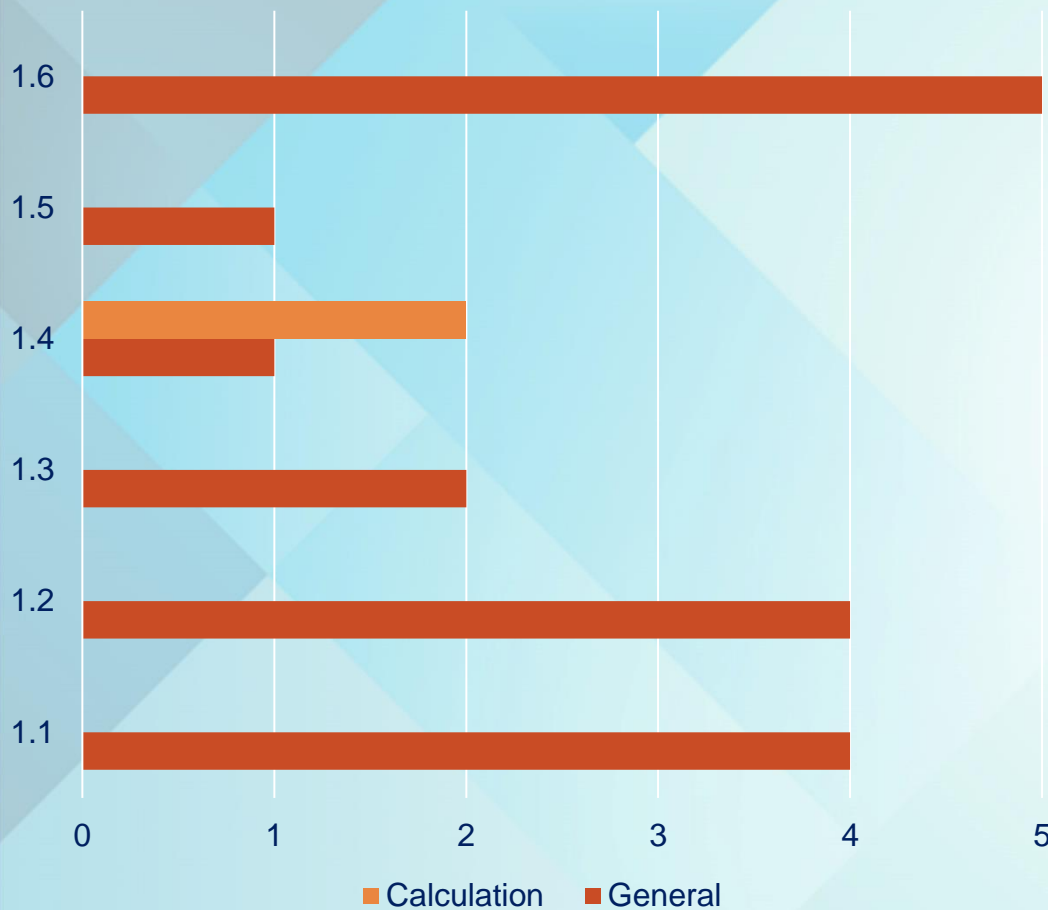
# Types of questions





# Domain 1: PUBLIC HEALTH

16%



1.6 Primary healthcare

1.5. Epidemic and disaster management

1.4 Health economics

1.3 Professional and health advocacy

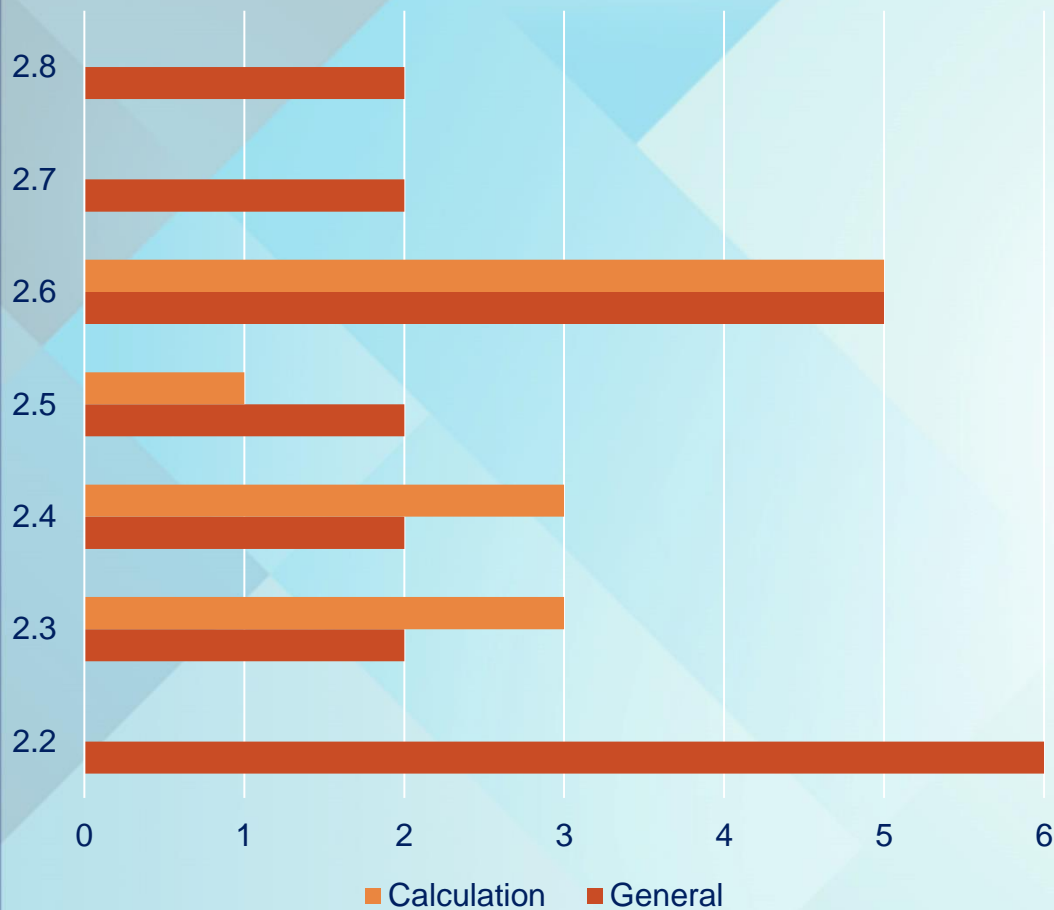
1.2 Medicines information

1.1 Promotion of health and wellness



# Domain 2: SAFE AND RATIONAL USE OF MEDICINES AND MEDICAL DEVICES

## 27%



2.8 Clinical trials

2.7 Pharmacovigilance

2.6 Pharmacist initiated therapy

2.5 Therapeutic outcome monitoring

2.4 Medicines and medical devices safety

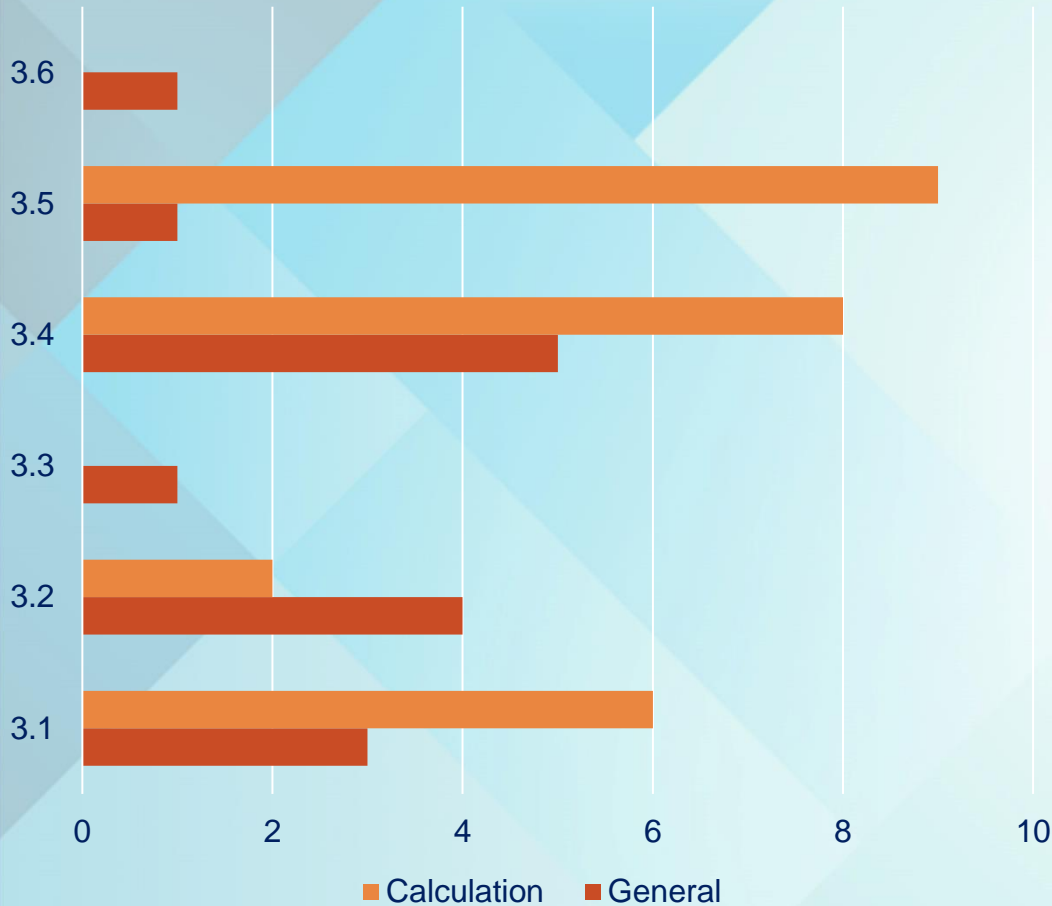
2.3 Patient medicine review and management

2.2 Patient counselling



# Domain 3: SUPPLY OF MEDICINES AND MEDICAL DEVICES

33%



3.6 Medicine disposal/destruction

3.5 Medicine compounding

3.4 Medicine dispensing

3.3 Formulary development

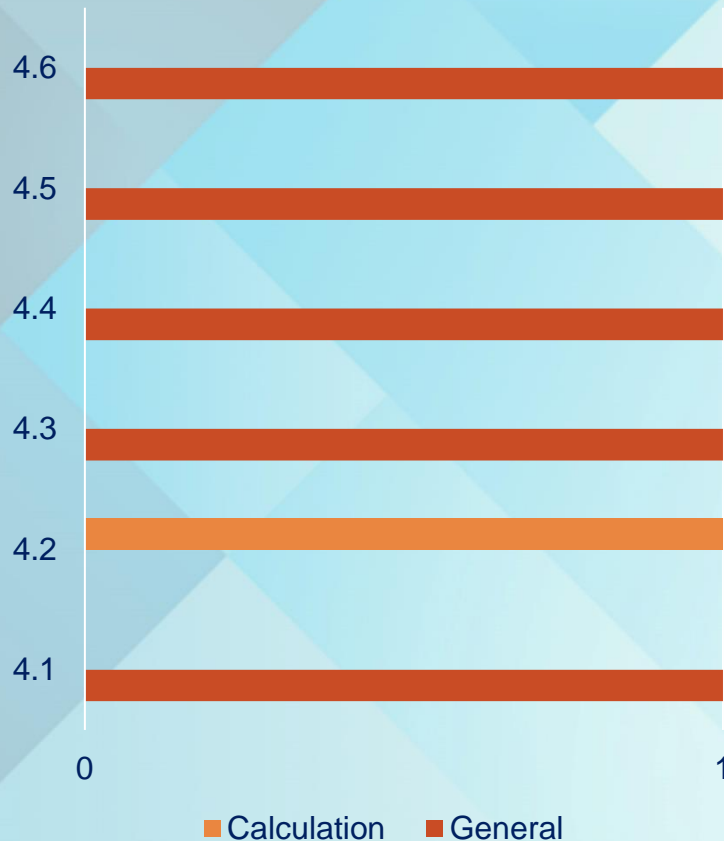
3.2 Supply chain management

3.1 Medicine production according to GxP



# Domain 4: ORGANISATION AND MANAGEMENT SKILLS

5%

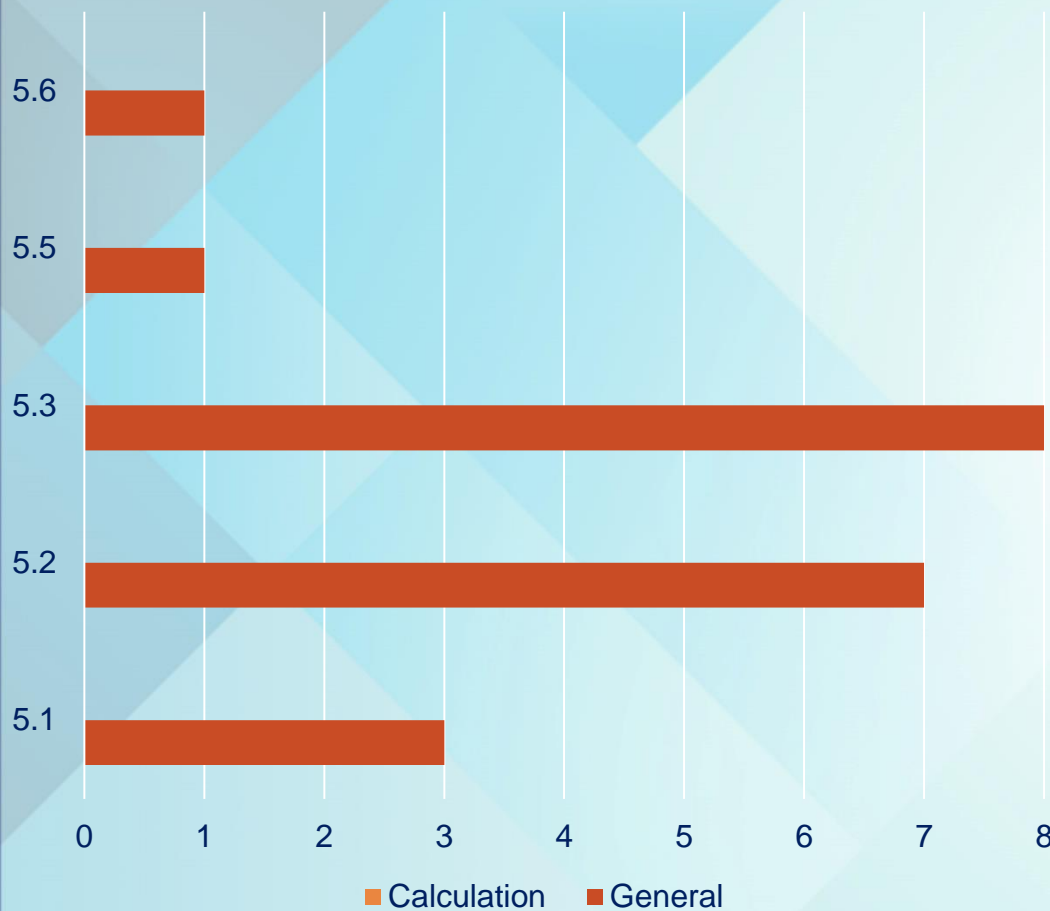


4.6 Policy development
4.5 Change management
4.4 Quality assurance
4.3 Pharmaceutical infrastructure management
4.2 Financial management
4.1 Human resources management



# Domain 5: PROFESSIONAL AND PERSONAL PRACTICE

17%



5.6 Decision-making

5.5 Leadership

5.3 Ethical and legal practice

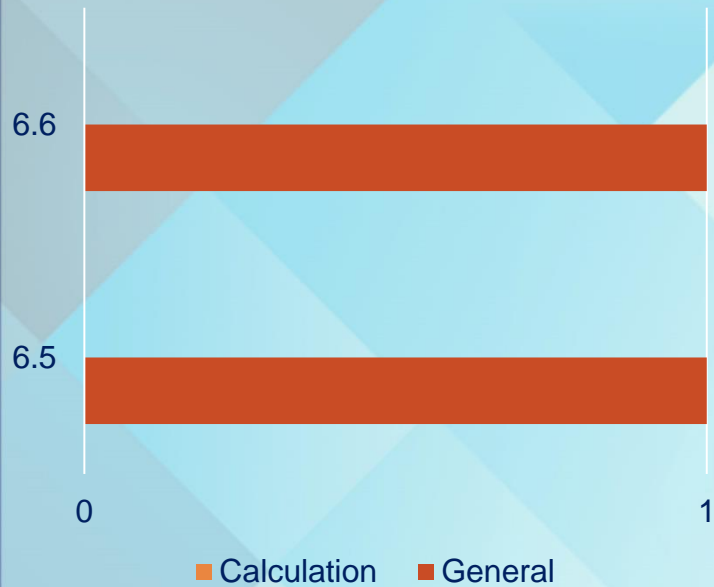
5.2 Professional practice

5.1 Patient-centred care



# Domain 6: EDUCATION, CRITICAL ANALYSIS AND RESEARCH

2%



6.6 Research

6.5 Critical analysis



# Admin

- Consult 2021 Intern Manual
- When is the exam?
- Where is the exam?
- How do I book my place?
- What resources do I need?

# Prepare

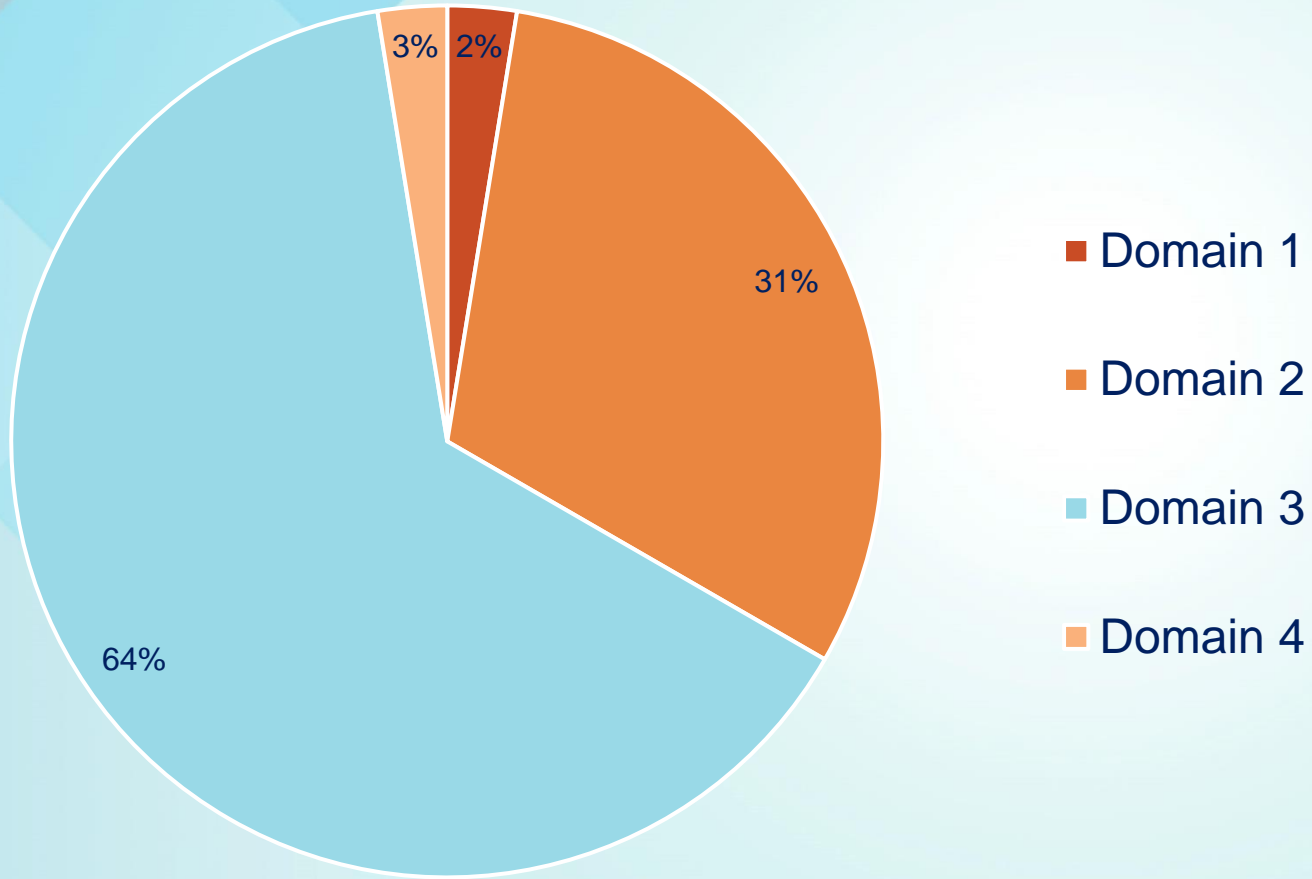
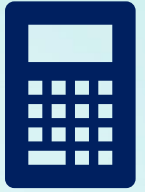
- How can I prepare?
- Which references do I need?
- How do I use the references?

# Exam

- What do I need to bring?
- How does the online exam work?
- How long is the exam?



# Calculations Question (Blueprint)





Admin



Prepare



Exam



## ► Types of calculations:

- Health Economics
- Patient medicine review and management
- Medicines and medical devices safety
- Therapeutic outcome monitoring
- Pharmacist initiated therapy
- Medicine production according to GxP
- Supply chain management
- Formulary development
- Medicine dispensing
- Medicine compounding
- Financial management



Admin



Prepare



Exam



## ▶ Resources Textbooks

- Pharmaceutical Calculations

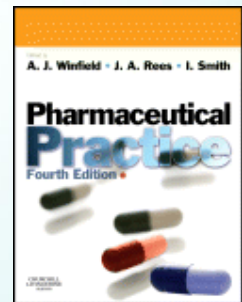
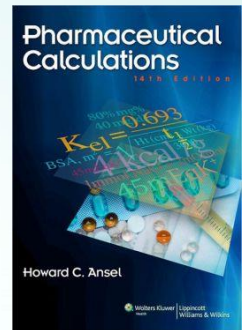
H. C. Ansel

- Calculations for Pharmaceutical Practice

A. J. Winfield & I.O. Edafiogho 4th Edition

- Pharmaceutical Practice

A. J. Winfield, J.A. Rees & I. Smith



**Note:** Text books are of more value before the exam than during the exam. **BE MINDFUL OF TIME**



Admin



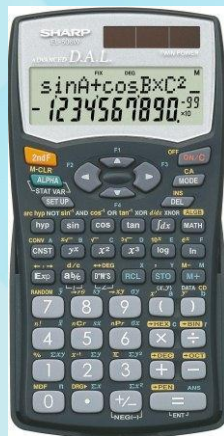
Prepare



Exam



## ► Equipment



- Scientific calculator
  - Use the same one to practice as you will use in the exam
  - Check batteries
  - Know the settings of your calculator

NO iPads, Tablets, Laptops, Cell phones, Smart watches allowed



Admin



Prepare



Exam



## TEXTBOOKS

- ▶ Identifying calculations:
  - Know how to identify calculations
  - Find out which calculations YOU battle with and PRACTICE these more.

## SAMPLE EXAMINATION PAPERS

- ▶ Complete these as mock examinations (under exam conditions)
  - Complete within 2 hours
  - Do not assume you got the question correct
  - Compare answers with colleagues



Admin



Prepare



Exam



► Tips:

- Units
  - Familiarise yourself with standard SI units
    - Example: % w/v = g/100ml
- Conversion
  - Practice converting between units
    - Example: 10 ppm can be expressed as 0.001%
- Equations
  - Take note of the equations you have used while practicing
    - Example:  $C_1V_1 = C_2V_2$

**Prepare the following for the examination for quick reference:**

- List of SI units
- Conversions
- List of equations



Admin



Prepare



Exam



▶ Exam technique

- Write the calculation clearly and legibly
- Transferring data → double check what you have written down
- Write down every step
- Do not take short cuts
- Try not being totally dependent on your calculator
- Always double check your calculation



Admin



Prepare



Exam



### ▶ Using your reference material

- Haven't got time to look up how to complete the calculation for each question
- Have the following on hand:
  - List of equations
  - Conversion sheets
  - List of SI units
- If you can't complete the question, carry on and when you have time towards the end of the exam, use the reference books to help you work it out.



Admin



Prepare



Exam



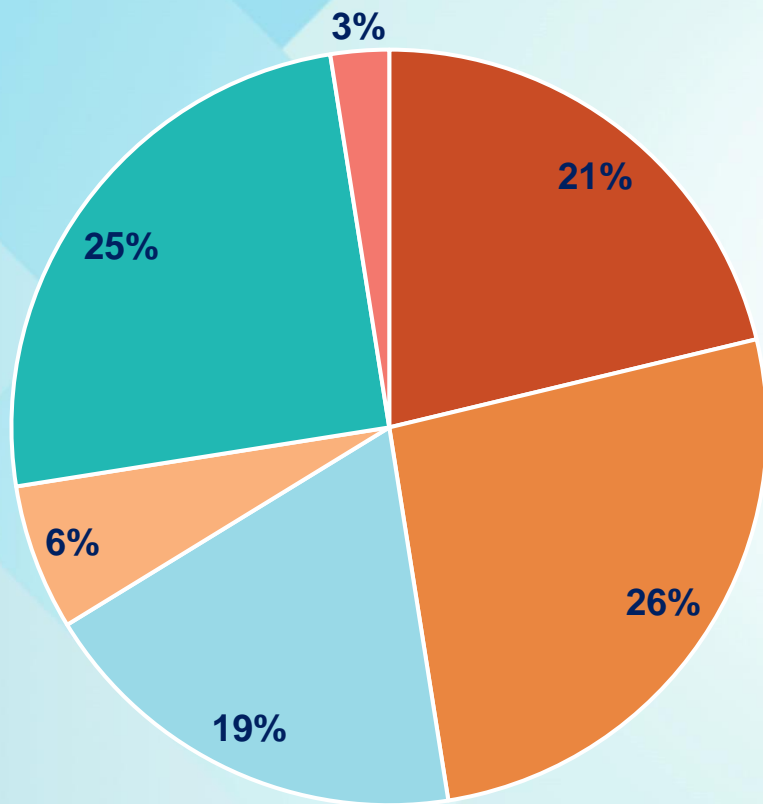
- ▶ Maximizing your time - 120 minutes
  - Approximately 40 MCQs
  - Approximately 3 minutes per question

No negative marking – do not leave anything blank





# General Questions (Blueprint)



- Domain 1
- Domain 2
- Domain 3
- Domain 4
- Domain 5
- Domain 6



Admin



Prepare



Exam



▶ References to bring:

- SAMF
- MIMS / MDR
- Daily Drug Use

▶ PDF References provided:



- EML and STG – PHC, Pediatric and Hospital
- Good Pharmacy Practice
- Good Manufacturing Practice
- Pharmacy Act
- Medicines and Related Substances Act

**Note:**

- Is it current?
- Will the information I find be up to date?



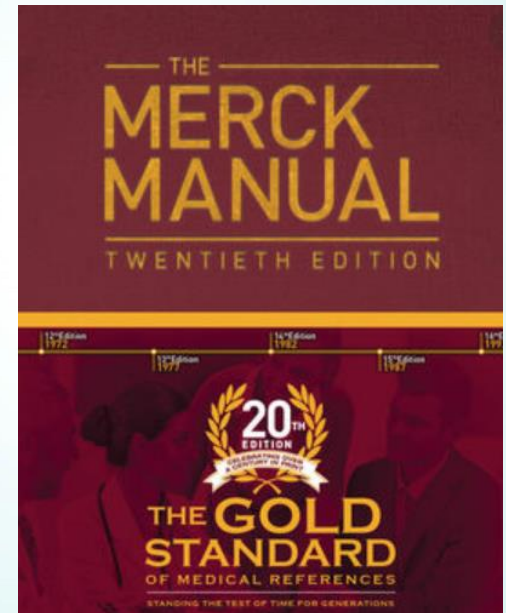
Admin



Prepare



Exam



What other textbooks may I want to bring?



Admin



Prepare



Exam



## ► Resources

- Practice Paper:  
(Available on the SAPC Website)
- Sample examination paper



Admin



Prepare



Exam



## REFERENCE MATERIAL

- ▶ Learn how to use each reference material
  - Where is the index?
  - What information can I find in each reference material?
- ▶ Tips:
  - More is not necessarily better
  - Avoid taking in a reference book you have never used before
  - Using notes from University may not help  
(information no longer be valid)



Admin



Prepare



Exam



## ▶ How else can I prepare?

- What current events are happening?
- Are there any epidemics or pandemics locally or globally?
- How can I learn while at work?
  - SOPs
  - Work environment
- Am I up to date?
  - e-Pharmaciae ([www.pharmaciae.org.za](http://www.pharmaciae.org.za))
  - SAPJ
  - Attend CPD sessions



Admin



Prepare



Exam



## SAMPLE EXAMINATION PAPER

- Look at the type of questions asked
  - Would the reference material I have enable me to answer this question?
- Answer the question
  - be familiar with topics which arise – not enough time to look up each statement
- Sample examination paper
  - Complete the paper under exam conditions
  - Compare answers with colleagues
  - Do not assume you got the question correct



Admin



Prepare



Exam



▶ What's your strategy?

- Identify the statements you know.
- Confirm only the statements you don't know.
- If you can't complete the question, carry on and when you have time towards the end of the exam come back to it.





Admin



Prepare



Exam



▶ Be careful of the following:

- “true”, “is” and “correct”
- “false” and “incorrect”
- “most appropriate” is asking for the most correct answer



Admin



Prepare



Exam



- ▶ Maximizing your time - 150 minutes
  - Approximately 80 MCQs
  - 4 options per MCQ
  - 240 statements
  - Less than 2 minutes per question

**No negative marking – do not leave anything blank.**





**Do you have any questions?**

**[Pre-regexamworkshops@sapc.za.org](mailto:Pre-regexamworkshops@sapc.za.org)**

**Thank you**



**South African  
Pharmacy Council**



# CONTACT US



**086 172 7200**



**customercare@sapc.za.org**



**@OfficialSAPC**



**www.sapc.za.org**



**591 Belvedere Street,**

**Arcadia, Pretoria**

